

Intel® Server Board S2600WT Family

Intel® Server Chassis R1000WT & R2000WT Family

Intel® Server System R1000WT & R2000WT Family

Product Family Configuration Guide

*A Reference document used to assist with ordering parts and accessories available to configure an Intel server system based on the Intel® **Server** S2600WT product family.*

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Intel® Server Boards and Systems

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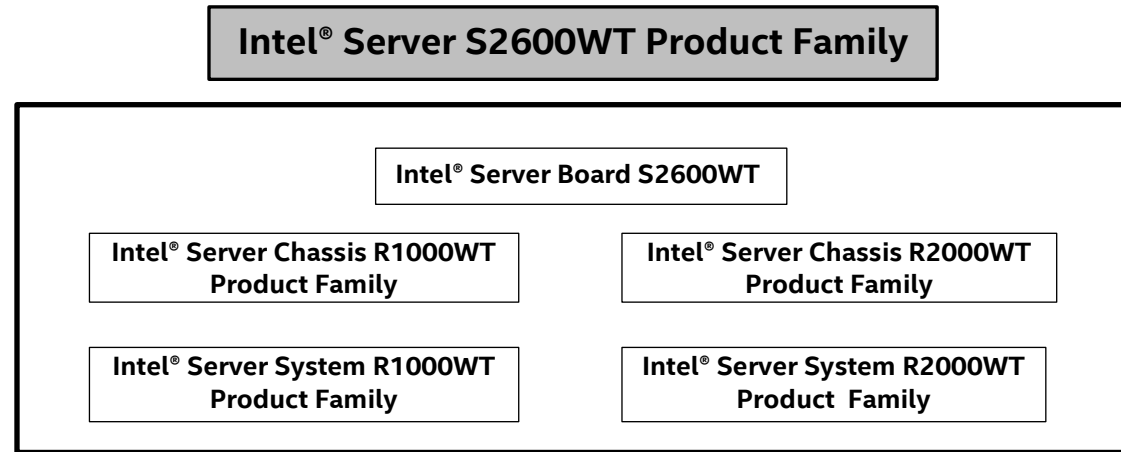
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1. Intel Server Family Overview

This document is provided to assist Intel customers with identifying the right Intel server system and available accessories to create a unique server platform that meet their unique server requirements.

The Intel® S2600WT product family is offered as both building block options and integrated systems. The product family consists of the following:



Server Building Blocks:

- **Intel® Server Board S2600WT** – Server Board only (Building block option and spare FRU)
- **Intel® Server Chassis R1000WT product family** – 1U Rack Mount Server Chassis only
- **Intel® Server Chassis R2000WT product family** – 2U Rack Mount Server Chassis only

Integrated Server Systems:

- **Intel® Server System R1000WT product family** – 1U Rack Mount Server System integrated with an Intel® Server Board S2600WT
- **Intel® Server System R2000WT product family** – 2U Rack Mount Server System integrated with an Intel® Server Board S2600WT

The Intel® S2600WT product family supports the following processors and memory:

- Intel® Xeon® processor E5-2600 v3 product family
 - **Note: Previous generation Intel® Xeon® processors are not supported.**
- DDR4 ECC RDIMM 1600, 1866, 2133
- DDR4 ECC LRDIMM 1600, 1866, 2133

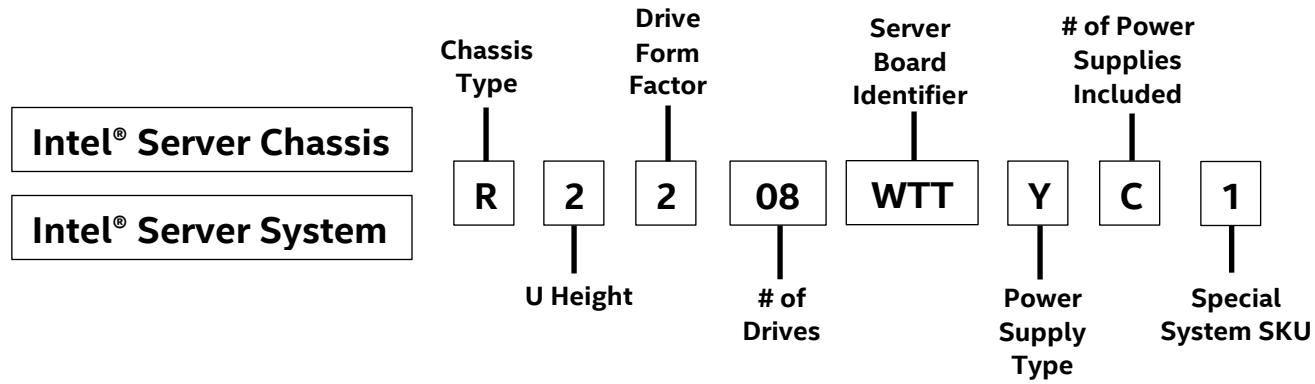
Additional Information and Software

For additional information about this family of products or any of their supported accessories, refer to the following resources available at <http://www.intel.com/support>.

Table 1. Product Family Reference Collaterals

For this information or software	Use this Document or Software
For in-depth technical information about this product family	<ul style="list-style-type: none"> Intel® Server Board S2600WT Technical Product Specification Intel® Server System R1000WT Product Family Technical Product Specification Intel® Server System R2000WT Product Family Technical Product Specification Intel® Remote Management Module 4 (Intel® RMM4) and Integrated BMC User Guide Intel® Remote Management Module 4 Technical Product Specification Intel® I/O Expansion Modules Hardware Specification Intel® Server System BIOS Setup Utility Guide Intel® Server Platform Firmware Specification Update Product Safety and Regulatory Compliance - Intel® Xeon® Processor E5-2600 v3 http://www.intel.com/p/en_US/support/highlights/server/s2600wt?wapkw=s2600wt+family
For system integration instructions and service guidance	<ul style="list-style-type: none"> Intel® Server System R1000WT product family System Integration and Service Guide Intel® Server System R2000WT product family System Integration and Service Guide http://www.intel.com/p/en_US/support/highlights/server/s2600wt?wapkw=s2600wt+family
For server configuration guidance and compatibility	Intel® Server Configurator tool http://serverconfigurator.intel.com
For system power budget guidance	<i>Intel® Server Board S2600WT Product Family Power Budget Tool and Thermal Configuration Guide</i> https://downloadcenter.intel.com/product/78562/Intel-Server-Board-S2600WT-Family
For system firmware updates, onboard device drivers, and software to manage your Intel® Server System.	https://downloadcenter.intel.com/product/78562/Intel-Server-Board-S2600WT-Family
For a complete list of supported processors, memory, add-in cards, and peripherals:	http://www.intel.com/p/en_US/support/category/server/s2600wt/doc_guide#

1.1 Intel® Server S2600WT Product Family Naming Convention



Chassis Type R = RACK MOUNT		Server Board Identifier WT = Intel® Server Board S2600WT product family supported WT2 = Intel® Server Board S2600WT w/1 GbE LOM – iPC S2600WT2 WTT = Intel® Server Board S2600WT w/10 GbE LOM – iPC S2600WTT
U Height 1 = 1U 2 = 2U		Power Supply Type Included X = None Included G = 750W Y = 1100W
Drive Form Factor (Specific to front drive bays) 0 = No drives supported 2 = 2.5" 3 = 3.5"		# of Power Supplies Included X = None S = 1 (Non-redundant) C = 2 (Redundant)
# of Drives Supported (Specific to front drive bays) 00 12 04 16 08 24 Note: 00 product codes have no front mount drive bays. Hot swap drive support can be added with the addition of available drive bay accessory options.		Special System SKU # = a sequential number starting with 1 within the product family, identifying a special system SKU that adds a non-standard feature from other offered system SKUs. This last digit may or may not be present on all offered system SKUs.

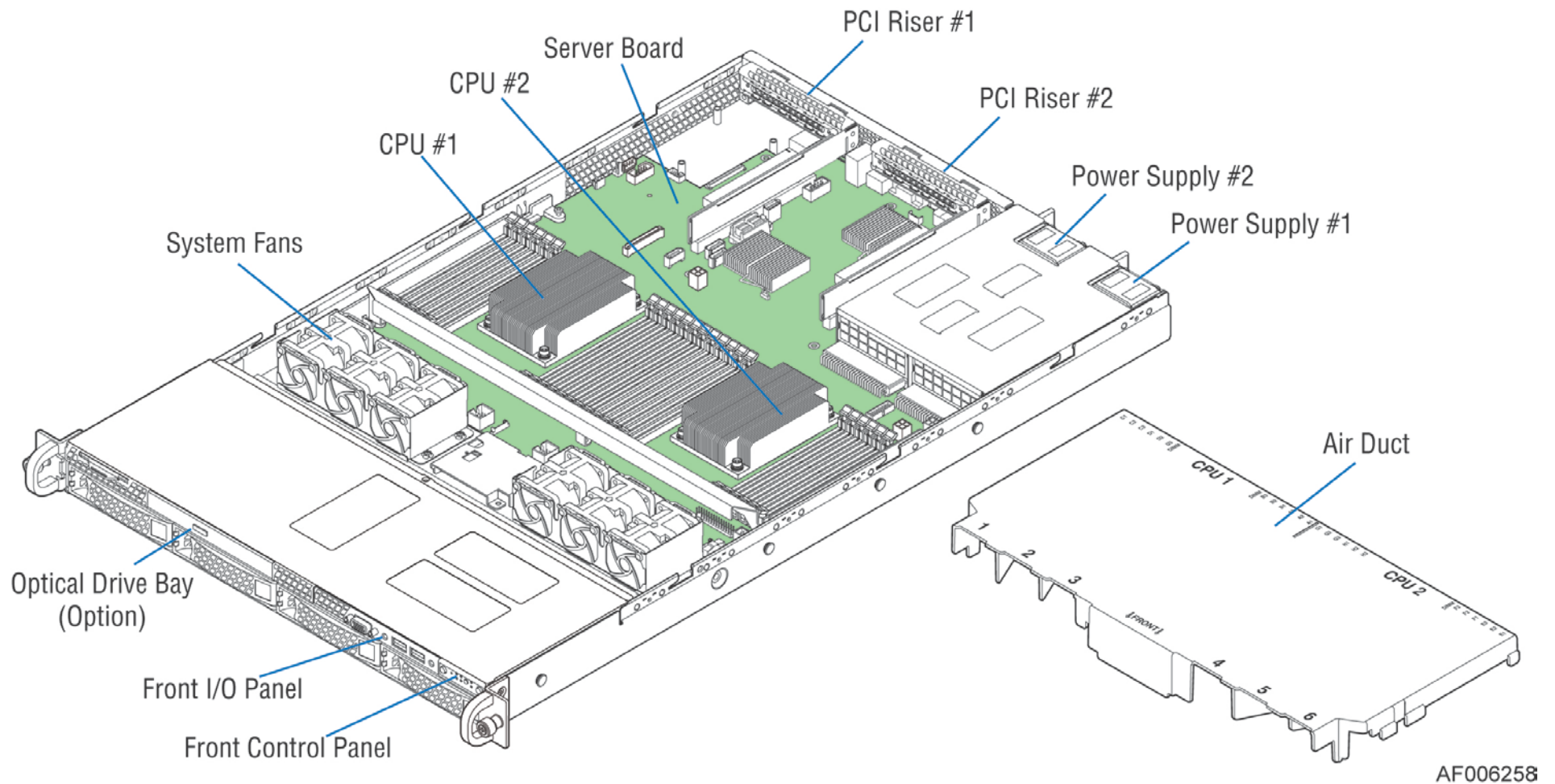


Figure 1. Intel® Server System R1000WT Feature Set Identification

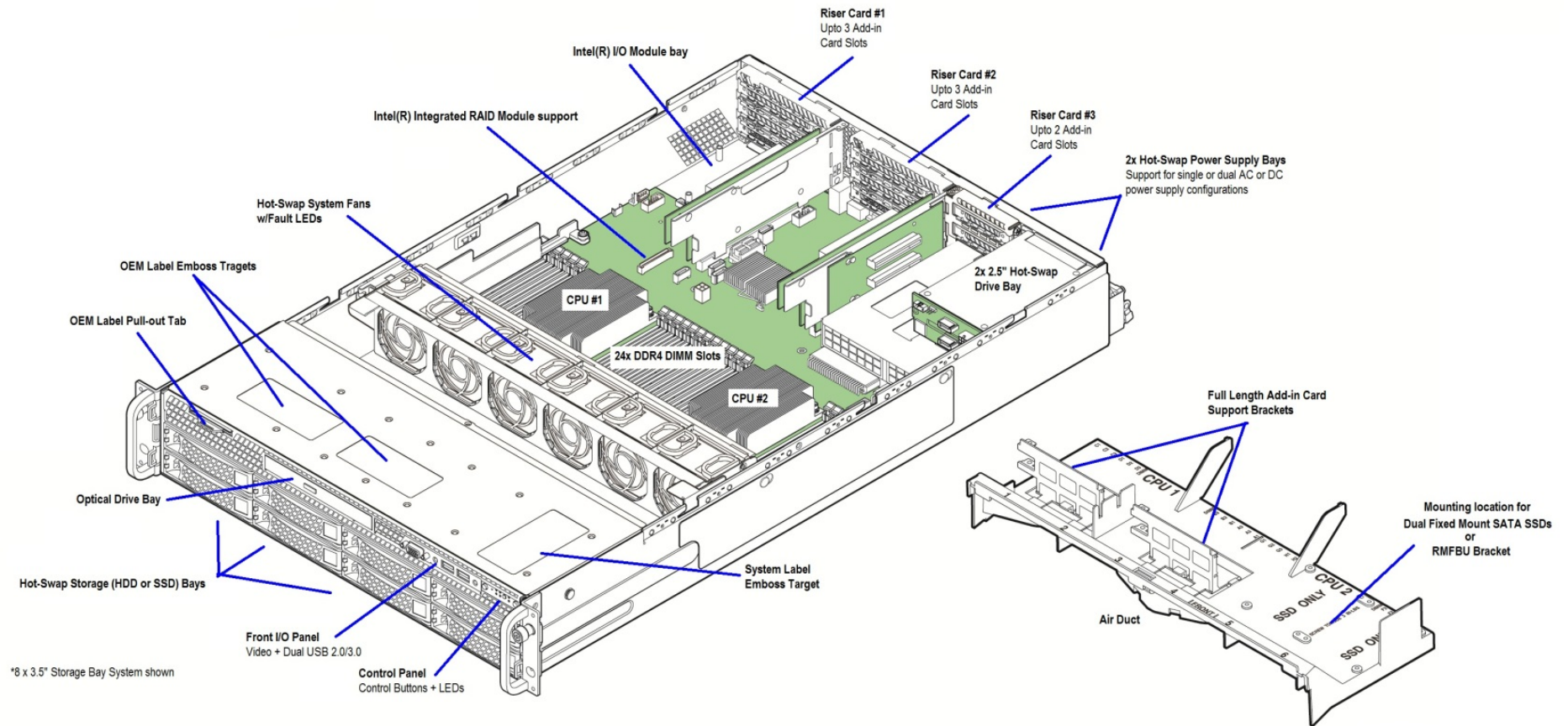


Figure 2. Intel® Server System R2000WT Feature Set Identification

1.2 Product Family Summary Chart

The Intel® S2600WT product family is built around either of two Intel® Server Board S2600WT options: S2600WTT and S2600WT2. The feature set of each server board option is identical except for the onboard LAN controller.

The **S2600WTT** SKU offers a LAN on Motherboard (LOM) option supporting dual RJ45 10Gb Base-T LAN ports.

The **S2600WT2** SKU offers a LAN on Motherboard (LOM) option supporting dual RJ45 1Gb Base-T LAN ports.

The following tables provides an overview of available Intel product codes for building blocks and systems within the Intel® S2600WT product family. Each line item identifies key features supported in the shipping Intel SKU. Additional order code information and full product descriptions for each option are provided in later sections.

Table 2. Server Board Product Family Summary

Intel Product Code	# of CPU sockets	# of DIMM Slots	# of Riser Slots	Onboard RJ45 LAN ports	# of SATA ports (6 Gb)	SATA SW RAID Support	Intel® I/O Module Support	Intel® SAS RAID Module support
Server Board only								
S2600WT2	2	24	3	2 (1 Gb)	10	Yes	Yes	Yes
S2600WTT	2	24	3	2 (10 Gb)	10	Yes	Yes	Yes

Table 3. Server Chassis & Server System Product Family Summary

Intel Product Code	Chassis Form Factor	Drive Form Factor	# of Drives (front) ¹	# of Drives (rear)	# of PCIe* Add-in Card Slots	3 rd Riser	Power Supply Modules	Rails	SAS RAID	SAS Expander
Chassis Only (KDK)										
R1304WTXXX	1U	3.5"	4	na	opt	na	opt	opt	opt	na
R1208WTXXX	1U	2.5"	8	na	opt	na	opt	opt	opt	na
R2312WTXXX	2U	3.5"	12	opt	opt	opt	opt	opt	opt	opt
R2000WTXXX ²	2U	opt	opt	opt	opt	opt	opt	opt	opt	opt
2x 10G LOM System (L6 BIK)										
R1304WTTGS	1U	3.5"	4	na	2	na	1x 750W AC	opt	opt	na
R1208WTTGS	1U	2.5"	8	na	2	na	1x 750W AC	opt	opt	na
R2208WTTYs	2U	2.5"	8	opt	8	yes	1x 1100W AC	opt	opt	na
R2308WTTYs	2U	3.5"	8	opt	8	yes	1x 1100W AC	opt	opt	na
R2312WTTYs	2U	3.5"	12	2	6	opt	1x 1100W AC	opt	opt	opt
R2224WTTYs	2U	2.5"	24	2	6	opt	1x 1100W AC	opt	opt	opt
R2208WTTYC1 ³	2U	2.5"	8	opt	6	yes	2x 1100W AC	opt	opt	na

Intel® Server S2600WT Product Family Configuration Guide and Spares/Accessories List

Intel Product Code	Chassis Form Factor	Drive Form Factor	# of Drives (front) ¹	# of Drives (rear)	# of PCIe* Add-in Card Slots	3 rd Riser	Power Supply Modules	Rails	SAS RAID	SAS Expander
2x 1G LOM System (L6 BIK)										
R1304WT2GS	1U	3.5"	4	na	2	na	1x 750W AC	opt	opt	na
R1208WT2GS	1U	2.5"	8	na	2	na	1x 750W AC	opt	opt	na
R2208WT2YS	2U	2.5"	8	opt	8	yes	1x 1100W AC	opt	opt	na

Table Notes:

1 – All front drive bays are 12Gb SAS capable

2 – R2000WTXXX Chassis can support all 8x2.5" drive bay accessory options or 8x3.5" drive bay accessory option

3 – System SKU with included system features to support Intel® Xeon Phi™ Coprocessor cards with **passive** (no fan) heat sink solutions. High power add-in cards with **active** cooling solutions are NOT supported in this SKU.

Terms used in the table:

na – Not Applicable

opt – Accessory option sold separately

yes – Option included

KDK – Knock Down Kit – Intel PCSD term for chassis only product

BIK – Server Board in KDK – Intel PCSD term for integrated (L6) system product

L6 – Integrated system with no processors, memory, or storage devices

1.3 Intel® S2600GZ/GL Product Family to Intel® Server S2600WT Product Family Transition Guide

If transitioning from the previous generation Intel® S2600GZ/GL product family, the following table can be used to identify an equivalent system within the Intel® S2600WT product family.

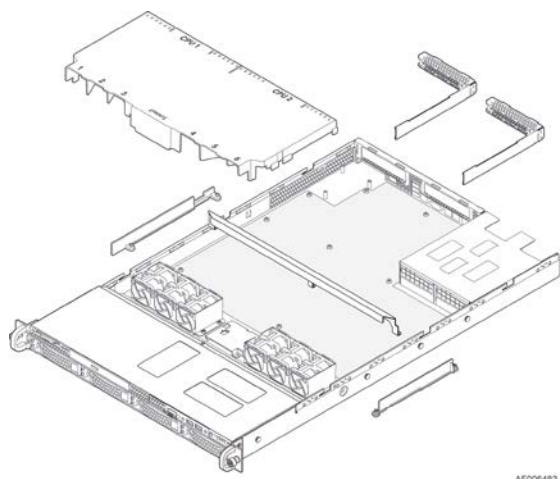
Table 4. 1U / 2U Server System Product Family Generation to Generation Transition Guide

Prior Generation Product Code	New Generation 1G LOM SKU Product Code	New Generation 10G LOM SKU Product Code	Required accessories to match configuration			Advantages included in current generation
R1208GL4DS	R1208WT2GS	R1208WTTGS	AXXELVRAIL	AXXRMM4LITE		750 vs460 PSU, 24 vs16DIMM
R1208GZ4GC	R1208WT2GS	R1208WTTGS	AXXELVRAIL	AXXRMM4LITE	FXX750PCRPS	
R1208GZ4GS9	R1208WT2GS	R1208WTTGS				
R1304GL4DS9	R1304WT2GS	R1304WTTGS				750 vs460 PSU, 24vs16DIMM
R1304GZ4GC	R1304WT2GS	R1304WTTGS	AXXELVRAIL	AXXRMM4LITE	FXX750PCRPS	
R1304GZ4GS9	R1304WT2GS	R1304WTTGS				
R2208GL4DS9	R2208WT2YS	R2208WTTYs				Rear drives option, 1100W vs 460W PSU, 3rd riser, 24vs16 dimms
R2208GL4GS	R2208WT2YS	R2208WTTYs	AXXELVRAIL	AXXRMM4LITE		Rear drives option, 1100W vs 750W PSU, 3rd riser, 24vs16 dimms
R2208GZ4GC	R2208WT2YS	R2208WTTYs	AXXELVRAIL	AXXRMM4LITE	AXX1100PCRPS	Rear drives option, 1100W vs 750W PSU, 3rd riser
R2208GZ4GS9	R2208WT2YS	R2208WTTYs				Rear drives option, 1100W vs 750W PSU, 3rd riser
R2224GZ4GC4		R2224WTTYs	AXXELVRAIL	AXXRMM4LITE		Rear drives included, 1100W vs 750W PSU, 3rd riser optional
R2308GL4GS		R2308WTTYs	AXXELVRAIL	AXXRMM4LITE		Rear drives option, 1100W vs 750W PSU, 3rd riser, 24vs16 dimms
R2308GZ4GC		R2308WTTYs	AXXELVRAIL	AXXRMM4LITE	AXX1100PCRPS	Rear drives option, 1100W vs 750W PSU, 3rd riser
R2308GZ4GS9		R2308WTTYs				Rear drives option, 1100W vs 750W PSU, 3rd riser
R2312GL4GS		R2312WTTYs	AXXELVRAIL	AXXRMM4LITE		Rear drives included, 1100W vs 750W PSU, 3rd riser optional, 24vs16 dimms
R2312GZ4GC4		R2312WTTYs	AXXELVRAIL	AXXRMM4LITE	AXX1100PCRPS	Rear drives included, 1100W vs 750W PSU, 3rd riser optional
R2312GZ4GS9		R2312WTTYs				Rear drives included, 1100W vs 750W PSU, 3rd riser optional

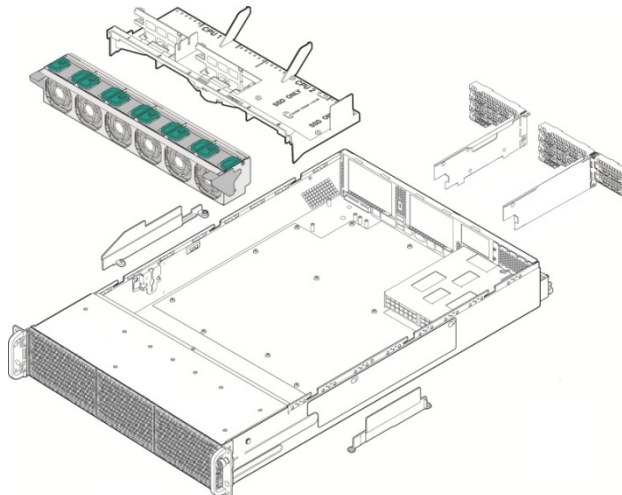
2. Server Building Block Configuration

Server building blocks are offered to give Intel customers the option to configure and assemble a unique server system from the bare chassis up. Each building block component and optional accessory is purchased separately. At a minimum, building up a functional server system using building blocks will require the following:

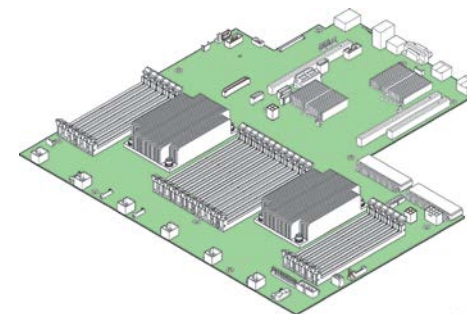
- 1U or 2U Intel Server Chassis – Intel® Server Chassis R1000WT or R2000WT
- Intel® Server Board S2600WT– S2600WT2 or S2600WTT
- SAS / SATA Data cables
- Power Supply module(s)
- Power cord(s)
- Rack mount kit – Rails or fixed mount
- Processor
- Memory
- Storage Drives



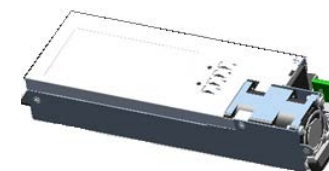
1U – Intel® Server Chassis R1000WT



2U – Intel® Server Chassis R2000WT



Intel® Server Board S2600WT



750W or 1100W Power Supply Module

Optional Intel accessories that can be added include the following: See chapter 5 for available options.

- Riser cards options
- SAS / SAS RAID support – PCIe* add-in card or module + Appropriate SAS Data cable(s)
- Intel® I/O Module
- Intel® Remote Management Module 4 Lite

2.1 Building Block Recipe Summary



The following table is used to identify the building block options required to assemble an equivalent server system SKU offered within the Intel® Server System R1000WT or R2000WT product families.

The first column in the table identifies the available integrated system SKUs. The columns to the right of a specified system SKU identify the Intel building block kits required to assemble the equivalent system.

Table 5. 1U / 2U Building Block to Integrated System Recipe Guide

Intel L6 System Product Code	Building blocks needed to assemble an equivalent system							
	Intel Chassis Product Code	Server Board	Front Drive Bay assembly	Power Supply Modules	Riser Slot 1 and 2 Riser Cards	Riser Slot 3 Riser Card	Rear Drive Bay Assembly	SAS cables for 12Gb
R1304WTTGS	R1304WTXXX	S2600WTT	included	(1x) FXX750PCRPS	(2x) F1UL16RISER2	NA	NA	800mm cable AXXCBL1UHRHD
R1304WT2GS	R1304WTXXX	S2600WT2	included	(1x) FXX750PCRPS	(2x) F1UL16RISER2	NA	NA	800mm cable AXXCBL1UHRHD
R1208WTTGS	R1208WTXXX	S2600WTT	included	(1x) FXX750PCRPS	(2x) F1UL16RISER2	NA	NA	AXXCBL1UHRHD
R1208WT2GS	R1208WTXXX	S2600WT2	included	(1x) FXX750PCRPS	(2x) F1UL16RISER2	NA	NA	AXXCBL1UHRHD
R2208WTTYs	R2000WTXXX	S2600WTT	A2U8X25S3HSDK	(1x) AXX1100PCRPS	(2x) A2UL8RISER2	A2UX8X4RISER	optional	AXXCBL730HDHD
R2208WTTYC1	R2000WTXXX + AWTCOPRODUCT	S2600WTT	A2U8X25S3HSDK	(2x) AXX1100PCRPS	(2x) A2UL16RISER2	A2UX8X4RISER	optional	AXXCBL730HDHD
R2208WT2YS	R2000WTXXX	S2600WT2	A2U8X25S3HSDK	(1x) AXX1100PCRPS	(2x) A2UL8RISER2	A2UX8X4RISER	optional	AXXCBL730HDHD
R2224WTTYs	R2000WTXXX + A2UHANDLKIT	S2600WTT	(3x) A2U8X25S3HSDK	(1x) AXX1100PCRPS	(2x) A2UL8RISER2	optional	A2UREARHSDK	AXXCBL730HDHD + (2) AXXCBL875HDHD
R2308WTTYs	R2000WTXXX	S2600WTT	A2U8X35S3HSDK	(1x) AXX1100PCRPS	(2x) A2UL8RISER2	A2UX8X4RISER	optional	1/2 kit of: AXXCBL800HDHD & AXXCBL950HDHD
R2312WTTYs	R2312WTXXX	S2600WTT	included	(1x) AXX1100PCRPS	(2x) A2UL8RISER2	optional	A2UREARHSDK	AXXCBL800HDHD AXXCBL875HDHD AXXCBL950HDHD

2.2 Intel® Server Board S2600WT Product Family SKUs

Intel Product Code (iPC)	Order Information	Product Description	Product Type
<p>iPC – S2600WT2</p> 	<p>MM# - 934880 UPC - 00735858288859 EAN - 5032037068130 MOQ - 1</p> <p>Packaged Gross Weight 3.1 Kgs, 6.8 Lbs</p> <p>Un-packaged Net Weight 1.7 Kgs, 3.8 Lbs</p>	<p><u>Intel® Server Board S2600WT2</u></p> <ul style="list-style-type: none"> Support for dual Intel® Xeon E5-2600 v3 processor family Maximum supported TDP for board 145W (not available in all chassis configurations) Intel® C612 chipset 24 DDR4 DIMM Slots 8 AHCI SATA 6Gb ports thru two 4-port SFF-8643 connectors 2 AHCI SATA 6Gb ports for ODD, DOM, SSD thru two 7-pin SATA connectors 2 Integrated 1Gb ports (Intel® Ethernet Controller I350) Integrated Baseboard Management controller with IPMI 2.0 support Optional advanced management features activated by AXXRMM4LITE key Dedicated 1Gb management port onboard Support for up to 3 riser cards with multiple Intel riser card options <ul style="list-style-type: none"> NOTE – 2 CPUs required for riser #2 and riser #3 support Support for Intel® I/O expansion module option Support for Intel® SAS module option <p>Box includes: one server board Note: All necessary mounting hardware, cabling, and shielding will ship with the Intel chassis and optional accessory kits.</p>	<p>Server Board only</p> <ul style="list-style-type: none"> Building block option Spare FRU
<p>iPC – S2600WTT</p> 	<p>MM# - 934882 UPC - 00735858288842 EAN - 5032037068123 MOQ - 1</p> <p>Packaged Gross Weight 3.1 Kgs, 6.8 Lbs</p> <p>Un-packaged Net Weight 1.7 Kgs, 3.8 Lbs</p>	<p><u>Intel® Server Board S2600WTT</u></p> <ul style="list-style-type: none"> Support for dual Intel® Xeon E5-2600 v3 processor family Maximum supported TDP for board 145W (not available in all chassis configurations) Intel® C612 chipset 24 DDR4 DIMM Slots 8 AHCI SATA 6Gb ports thru two 4-port SFF-8643 connectors 2 AHCI SATA 6Gb ports for ODD, DOM, SSD thru two 7-pin SATA connectors 2 Integrated 10Gb ports (Intel® Ethernet Controller X-540) Integrated Baseboard Management controller with IPMI 2.0 support Optional advanced management features activated by AXXRMM4LITE key Dedicated 1Gb management port Support for up to 3 riser cards with multiple Intel riser card options <ul style="list-style-type: none"> NOTE – 2 CPUs required for riser #2 and riser #3 support Support for Intel® I/O expansion module option Support for Intel® SAS module option <p>Box includes: one server board Note: All necessary mounting hardware, cabling, and shielding will ship with the Intel chassis and optional accessory kits.</p>	<p>Server Board Only</p> <ul style="list-style-type: none"> Building block option Spare FRU

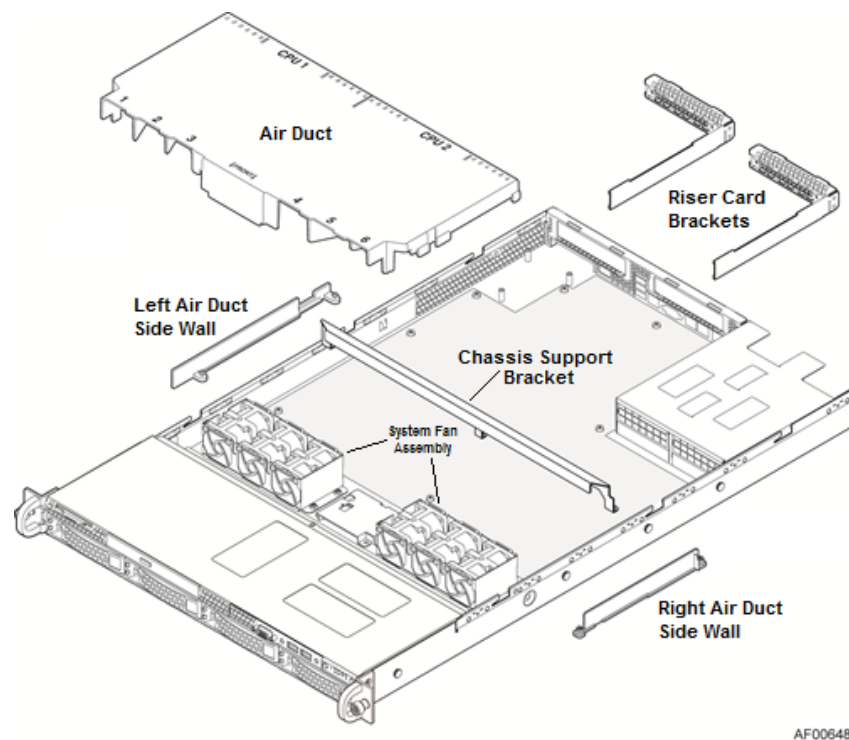
2.3 Intel® Server Chassis R1000WT Product Family SKUs – (1U Rack Mount Chassis)

The product tables found in this section provide order code information and detailed descriptions for each available 1U Intel server chassis building block option. The lower sections of each table identify:

- The ship along components of the specified chassis product code – (product BOM)
- **Required Items** – Hardware required to be installed to the base system to achieve basic functionality using the default system feature set
- **Optional Accessories** – Some of the available accessories which can be installed to enhance the basic feature set of the server board / chassis. Additional accessories can be found in Chapter 5

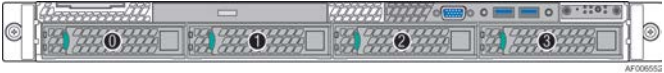
NOTES:


- Each **required item** and **optional accessory** is sold separately from the specified Intel server building block
- Items identified as **iPC** (Intel Product Code), are an orderable building block option, accessory or spare FRU
- In an effort to provide the complete product bill of materials, the ship along components list in each product table will include items identified by description and by **iPN** (Intel Part Number). The iPN information is provided for reference only. These components are **not** orderable as a spare or accessory.



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Figure 3. Intel® Server Chassis R1000WT – 1U Chassis only Building Block (KDK)

<p>Intel Product Code (iPC):</p> <p>R1304WTXXX</p>  <p>1U – 4 x 3.5" HDD or 4 x 2.5" SSD front mount drives</p>	<p>Order Code Information:</p> <p>MM# - 936121</p> <p>UPC - 00735858287944</p> <p>EAN - 5032037067492</p> <p>MOQ - 1</p>	<p>Product Type: Chassis Only</p> <p>Chassis Form Factor: 1U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=43.2mm</p> <p>Packaged Gross Weight: 19 Kgs, 41.9 Lbs</p> <p>Un-packaged Net Weight: 10.3 Kgs, 22.7 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements		
<p>Intel product code R1304WTXXX includes the following components:</p> <ul style="list-style-type: none"> (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Air duct (6) – Dual rotor system fans – iPC FR1UFAN10PW (1) – Pre-installed Standard Control Panel assembly (board only – iPC FXFXFPANEL) (1) – Pre-installed Front I/O Panel assembly (1 x VGA and 2 x USB) (w/internal attach cables) (1) – SATA Optical drive bay with filler panel <ul style="list-style-type: none"> Includes optical drive mounting latch kit – iPN H19168-00x Includes optical drive power cable – iPN G95880-00x (4) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> includes (1) 12 Gb SAS backplane – iPC FR1304S3H5BP includes (4) 3.5" hot swap drive carriers – iPC FXX35HSCAR (1) – Server board to backplane power cable – iPN H38458-00x (1) – Server board to backplane I2C cable – iPN H39941-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (2) – Riser card mounting brackets – (riser cards sold separately. See chapter 5.7.1) (1) – Power Supply Bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC Power Cord retention strap assembly – iPN H23961-00x <p>Server board and riser card mounting screws</p> <p>Spares for each screw type included</p>	<p><u>Required Items – Sold Separately:</u></p> <ul style="list-style-type: none"> Intel® Server Board S2600WT (choose one) <ul style="list-style-type: none"> iPC S2600WT2 – with 1G LOM iPC S2600WTT – with 10G LOM Power supply module(s) – (Choose one type) two common modules required for redundancy <ul style="list-style-type: none"> iPC FXX750PCRPS – 750 W AC Power Supply Module iPC AXX750DCCRPS – 750 W DC Power Supply Module (Available Late Q2 2015) Power Cord(s) – See chapter 5.10 Rack Mount Kit – See chapter 5.11 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family ECC DDR4 memory (RDIMM or LRDIMM) 	<p><u>Optional Intel Accessories – Sold Separately:</u></p> <ul style="list-style-type: none"> iPC F1UL16RISER2 – One x16 PCIe* 3.0 slot Riser Card – (1 for each riser slot) Intel® I/O Module – See chapter 5.8 for options Intel® SAS RAID Card / Module – See section 5.9 for options SAS/SATA Data cables – Cable selection is dependant on desired storage option. See Chapter 4.2.1 for available cable options iPC A1UBEZEL – Lockable front system bezel iPC AXXRMM4LITE – Intel® Remote Management Module Lite key. For advanced management features Storage Drives <p>See Chapter 5 for all available accessory options.</p>

Intel Product Code (iPC): R1208WTXXX  1U – 8 x 2.5" front mount drives	Order Code Information: MM# - 936187 UPC - 00735858287951 EAN - 5032037067508 MOQ - 1	Product Type: Chassis Only Chassis Form Factor: 1U rack mount Chassis dimensions: L=712mm, W=439mm, H=43.2mm Packaged Gross Weight: 19 Kgs, 41.9 Lbs Un-packaged Net Weight: 10.3 Kgs, 22.7 Lbs Outer Box Dimensions: L=983mm, W=577mm, H=260mm
Product Definition and Configuration Requirements		
<p>Intel product code R1208WTXXX includes the following components:</p> <ul style="list-style-type: none"> (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Air duct (6) – Dual rotor system fans – iPC FR1UFAN10PW (1) – Pre-installed Standard control panel assembly (board only iPC FXXFPANEL) (1) – Pre-installed Front I/O Panel assembly (1 x VGA and 2 x USB) (w/internal attach cables) <ul style="list-style-type: none"> • If removed, can be used as an optical drive bay. • Includes optical drive mounting latch kit – iPN H19168-00x • Includes optical drive power cable – iPN H23851-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC F1U8X25S3HSBP • Includes (8) 2.5" hot swap drive carriers – iPC FXX25HSCAR2 (1) – Server board to backplane power cable – iPN H38457-00x (1) – Server board to backplane I2C cable – iPN H39941-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (2) – Riser card mounting brackets – (riser cards sold separately. See chapter 5.7.1) (1) – Power Supply Bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC Power Cord retention strap assembly – iPN H23961-00x <p>Server board and riser card mounting screws Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Intel® Server Board S2600WT (choose one) <ul style="list-style-type: none"> ◦ iPC S2600WT2 – with 1G LOM ◦ iPC S2600WTT – with 10G LOM • Power supply module(s) – (Choose one type) two common modules required for redundancy <ul style="list-style-type: none"> ◦ iPC FXX750PCRPS – 750 W AC Power Supply Module ◦ iPC AXX750DCCRPS – 750 W DC Power Supply Module (Available Late Q2 2015) • Power Cord(s) – See chapter 5.10 • Rack Mount Kit – See chapter 5.11 • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) 	<p>Optional Intel Accessories – Sold Separately:</p> <ul style="list-style-type: none"> • iPC F1UL16RISER2 – One x16 PCIe* 3.0 slot Riser Card – (1 for each riser slot) • Intel® I/O Module – See chapter 5.8 for options • Intel® SAS RAID Card / Module – See section 5.9 for options • SAS/SATA Data cables – Cable selection is dependant on desired storage option. See Chapter 4.2.2 for available cable options • iPC A1UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE – Intel® Remote Management Module Lite key. For advanced management features • iPC A1U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – replaces existing backplane and requires use of one PCIe* slot. See system accessories table or System TPS for details • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

2.4 Intel® Server Chassis R2000WT Product Family SKUs – (2U Rack Mount Chassis)

The product tables found in this section provide order code information and detailed descriptions for each available 2U Intel server chassis building block option. The lower sections of each table identify:

- The ship along components of the specified chassis product code – (product BOM)
- **Required Items** – Hardware required to be installed to the base system to achieve basic functionality using the default system feature set
- **Optional Accessories** – Some of the available accessories which can be installed to enhance the basic feature set of the server board / chassis. Additional accessories can be found in Chapter 5

NOTES:

- Each **required item** and **optional accessory** is sold separately from the specified Intel server building block
- Items identified as **iPC** (Intel Product Code), are an orderable building block option, accessory or spare FRU
- In an effort to provide the complete product bill of materials, the ship along components list in each product table will include items identified by description and by **iPN** (Intel Part Number). The iPN information is provided for reference only. These components are **not** orderable as a spare or accessory.

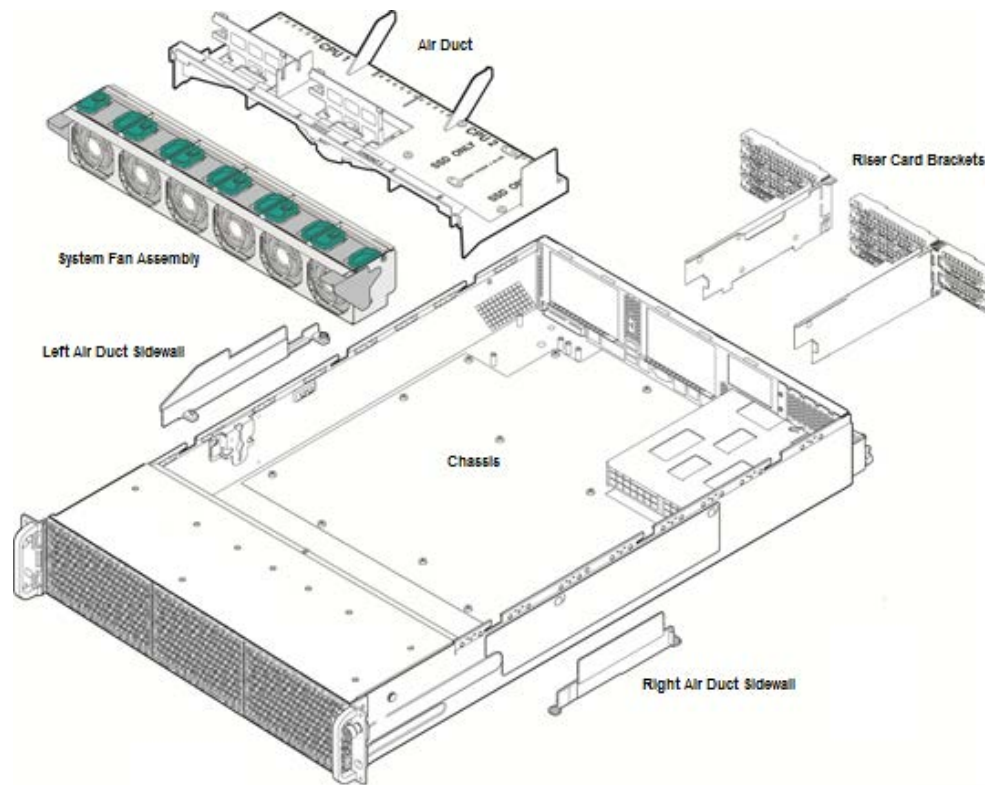
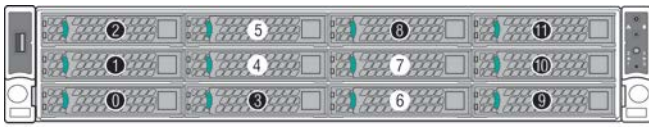
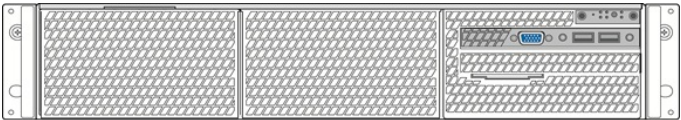


Figure 4. Intel® Server Chassis R2000WT – 2U Chassis only Building Block (KDK)

<p>Intel Product Code (iPC):</p> <p>R2312WTXXX</p>  <p>2U – 12 x 3.5" HDD or 12 x 2.5" SSD front mount drives</p>	<p>Order Code Information:</p> <p>MM# - 936022</p> <p>UPC - 00735858288729</p> <p>EAN - 5032037068000</p> <p>MOQ - 1</p>	<p>Product Type: Chassis only</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 21.2 Kgs, 46.7 Lbs</p> <p>Un-packaged Net Weight: 14.4 Kgs, 32.0 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements		
<p>Intel product code R2312WTXXX includes the following components:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (2) – Chassis Handles (1 set) installed, with Integrated control panel & USB Port - iPC A2UHANDLKIT (12) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> Includes (1) 12 Gb SAS backplane – iPC F2U12X35S3HSBP – (SAS Data cables sold separately) Includes (12) 3.5" hot swap drive carriers – iPC FXX35HSCAR (1) – Backplane I2C cable – iPN G92510-00x (1) – Backplane power cable – iPN G92685-00x (1) – Internal fixed mount SSD power cable – iPN H23901-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (2) – Riser Card mounting brackets supporting up to 3 riser cards – (risers cards sold separately – See chapter 5.7.2) (1) – Power Supply Bay blank insert (16) – DIMM slot blanks - iPN H43597-00x (1) – 3x RMFB� Mounting Bracket – iPN H18238-00x (2) – AC Power Cord retention strap assembly – iPN H23961-00x <p>Server Board and Riser Card mounting screws</p> <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> Intel® Server Board S2600WT (choose one) <ul style="list-style-type: none"> iPC S2600WT2 – with 1G LOM iPC S2600WTT – with 10G LOM Power supply module(s) – (Choose one type) two common modules required for redundancy <ul style="list-style-type: none"> iPC AXX1100PCRPS – 1100W AC Power Supply Module iPC FXX750PCRPS – 750 W AC Power Supply Module iPC AXX750DCCRPS – 750 W DC Power Supply Module (Available Late Q2 2015) Power Cord(s) – See chapter 5.10 Rack Mount Kit – See chapter 5.11 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family ECC DDR4 memory (RDIMM or LRDIMM) 	<p>Optional Intel Accessories – Sold Separately:</p> <ul style="list-style-type: none"> Riser Cards – Up to three riser cards can be installed concurrently – See chapter 5.7 <ul style="list-style-type: none"> Risers Slots #1 and #2 – Available riser cards include: <ul style="list-style-type: none"> iPC A2UL8RISER2 – (3) x8 PCIe* 3.0 slots iPC A2UL16RISER2 – (1) x16 PCIe* 3.0 slot + (1) x8 PCIe* 3.0 slot Riser Slot #3 – Available riser cards include: <ul style="list-style-type: none"> iPC A2UX8X4RISER – (1) Low profile x8 PCIe* 3.0 slot + (1) LP x8 PCIe* 2.0 slot Rear Storage Bay Option – See chapter 5.3 <ul style="list-style-type: none"> iPC A2UREARHSDK – Up to (2) hot swap SATA SSDs Intel® I/O Module – See chapter 5.8 for options Intel® SAS RAID Card / Module – See section 5.9 for options SAS/SATA Data cables – Cable selection is dependant on desired storage option. See Chapter 4.2.4 for available cable options iPC A2UBEZEL – Lockable front system bezel iPC AXXRMM4LITE – Intel® Remote Management Module Lite key. For advanced management features Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Intel Product Code (iPC):</p> <p>R2000WTXXX</p>  <p>2U – No front mount drives</p>	<p>Order Code Information:</p> <p>MM# - 936021</p> <p>UPC - 00735858287968</p> <p>EAN - 5032037067515</p> <p>MOQ - 1</p>	<p>Product Type: Chassis only</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 19 Kgs, 41.9 Lbs</p> <p>Un-packaged Net Weight: 13.3 Kgs, 29.3 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements		
<p>Intel product code R2000WTXXX includes the following components:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (1) – Pre-installed Standard control panel assembly – (board only iPC FXFXPANEL) (1) – Pre-installed Front I/O Panel assembly (1 x VGA and 2 x USB) (w/internal attach cables) (1) – SATA Optical drive bay with filler panel and optical drive mounting latch (1) – I2C cable - server board to backplane – iPN G41809-00x (backplane sold separately) (1) – Internal fixed mount SSD / optical drive power cable - iPN H23901-xxx (2) – Riser Card mounting brackets supporting up to 3 riser cards (riser cards sold separately – see chapter 5.7.2) (2) – CPU heatsinks – iPC FXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (1) – Power supply bay blank insert (16) – DIMM slot blanks – iPN H43597-00x (2) – Rack chassis handles (1 set) installed – iPN H18229-xxx (1) – 3x RMFBU Mounting Bracket – iPN H18238-00x (2) – AC Power Cord retention strap assembly – iPN H23961-00x <p>Server Board and Riser Card mounting screws</p> <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Intel® Server Board S2600WT (choose one) <ul style="list-style-type: none"> ○ iPC S2600WT2 – with 1G LOM ○ iPC S2600WTT – with 10G LOM • Power supply module(s) – (Choose one type) two common modules required for redundancy <ul style="list-style-type: none"> ○ iPC AXX1100PCRPS – 1100W AC Power Supply Module ○ iPC FXX750PCRPS – 750 W AC Power Supply Module ○ iPC AXX750DCCRPS – 750 W DC Power Supply Module (Available Late Q2 2015) • Power Cord(s) – See chapter 5.10 • Rack Mount Kit – See chapter 5.11 • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) 	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • Front storage bay option <ul style="list-style-type: none"> ○ Upto (3) 8 x 2.5" drive bay modules can be installed: <ul style="list-style-type: none"> ▪ iPC A2U8X25S3HSDK – SAS/SATA ▪ iPC A2U8X25S3DPDK – Dual port SAS ▪ iPC A2U44X25NVMEK – PCIe* SSD SFF (NVMe) + SAS ▪ (Note) for a 24 x 2.5" drive configuration, system will lose front video and optical drive support, and system must include the 2U storage front panel in Storage handle kit iPC A2UHANDLKIT ○ iPC A2U8X35S3HSDK – 8 x 3.5" drive + Optical drive bay <ul style="list-style-type: none"> ▪ Re-uses control panel and front I/O panel. Includes SAS/SATA data cables and peripheral power cable • Rear Storage Bay Option <ul style="list-style-type: none"> ○ iPC A2UREARHSDK – Up to (2) hot swap SATA SSDs • Riser Cards – Up to three riser cards can be installed concurrently <ul style="list-style-type: none"> ○ Riser Slots #1 and #2 – Available riser cards include: <ul style="list-style-type: none"> - iPC A2UL8RISER2 – (3) x8 PCIe* 3.0 slots - iPC A2UL16RISER2 – (1) x16 PCIe* slot + (1) x8 PCIe* slot ○ Riser Slot #3 – Available riser cards include: <ul style="list-style-type: none"> - iPC A2UX8X4RISER – (1) Low profile x8 PCIe* 3.0 slot + (1) LP x8 PCIe* 2.0 slot • SAS/SATA Data cables – Cable selection is dependant on desired storage option. See Chapter 4 for available cable options • Intel® SAS RAID Card / Module – See section 5.9 for options • Intel® I/O Module – See chapter 5.8 for options • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE – Intel® Remote Management Module Lite key. For advanced management features <p>See Chapter 5 for all available accessory options.</p>

3. Server System Configuration

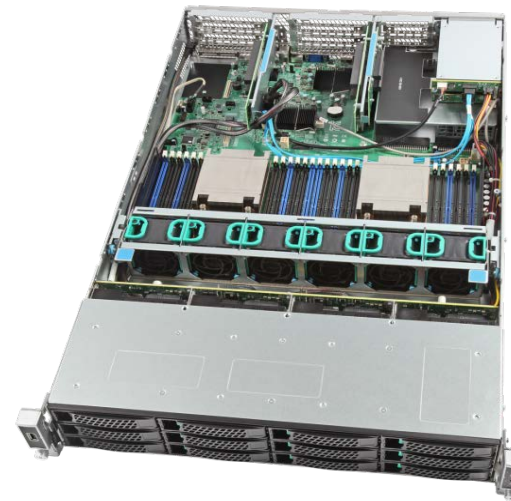
Intel makes available L6 integrated server systems that include a specific server board, power supply module, and hot swap drive bays options. At a minimum, building up a functional L6 server system will require the following:

- Rack mount kit option – Rails or fixed mount
- Power Cord(s)
- Processor(s)
- Memory
- Storage Drives



**Intel® Server System
R1000WT Product Family**

*R1208WT configuration shown



**Intel® Server System
R2000WT Product Family**

*R2312WT configuration shown

Optional Intel accessories that can be added include the following: See chapter 5 for available options.

- 2nd power supply module to add power redundancy
- SAS / SAS RAID support – PCIe* add-in card or module + Appropriate SAS Data cable(s)
- Intel® I/O Module
- Intel® Remote Management Module Lite

3.1 Intel® Server System R1000WT Product Family SKUs – (1U Rack Mount System)

The product tables found in this section provide order code information and detailed descriptions for the specified L6 integrated 1U Intel server system. The lower sections of each table identify:

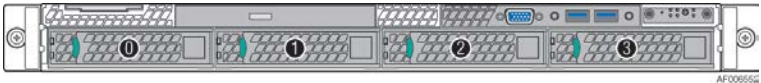
- The ship along components of the specified chassis product code – (product BOM)
- **Required Items** – Hardware required to be installed to the base system to achieve basic functionality using the default system feature set
- **Optional Accessories** – Some of the available accessories which can be installed to enhance the basic feature set of the server board / chassis. Additional accessories can be found in Chapter 5


NOTES:

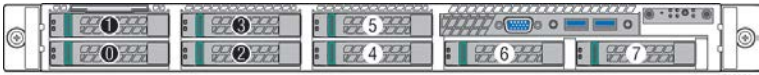
- Each **required item** and **optional accessory** is sold separately from the specified Intel L6 server system
- Items identified as **iPC** (Intel Product Code), are an orderable building block option, accessory or spare FRU
- In an effort to provide the complete product bill of materials, the ship along components list in each product table will include items identified by description and by **iPN** (Intel Part Number). The iPN information is provided for reference only. These components are **not** orderable as a spare or accessory.




Figure 5. Intel® Server System R1000WT – L6 Integrated 1U System *R1208WTxxx shown

Intel Product Code (iPC): R1304WTTGS  1U – 4 x 3.5" HDD or 4 x 2.5" SSD front mount drives	Order Code Information: MM# - 934967 UPC – 00735858288736 EAN – 5032037068017 MOQ – 1	Product Type: L6 Integrated System Chassis Form Factor: 1U rack mount Chassis dimensions: L=712mm, W=439mm, H=43.2mm Packaged Gross Weight: 21.3 Kgs, 47.0 Lbs Un-packaged Net Weight: 12.3 Kgs, 27.1 Lbs Outer Box Dimensions: L=983mm, W=577mm, H=260mm
Product Definition and Configuration Requirements/Options		
<p>Intel product code R1304WTTGS includes the following components:</p> <ul style="list-style-type: none"> (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (2) – Riser card assembly with single x16 PCIe* slot riser card – iPC F1UL16RISER2 (1) – 750W power supply module - iPC FXX750PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (4) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC FR1304S3HSBP • Includes (4) 3.5" hot swap drive trays – iPC FXX35HSCAR (1) – 800mm SAS/SATA Multiport data cable – iPC AXXCBL1UHRHD (1) – 350mm Backplane power cable – iPN H38458-00x (1) – 150mm Backplane I2C cable – iPN H39941-00x (1) – Air duct (6) – Dual rotor system fans – iPC FR1UFAN10PW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 550mm optical drive power cable – iPN G95880-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H19171-00x <p>Spares for each screw type included</p>	<p><u>Required Items – Sold Separately:</u></p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p><u>Optional Intel Accessories – Sold Separately</u></p> <ul style="list-style-type: none"> • iPC FXX750PCRPS – 2nd 750W AC Power supply module – to support power redundancy • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cable – Depending on the location of the SAS Data controller, a new data cable may be necessary. See chapter 4.2.1 • Intel® I/O Module - See chapter 5.8 for available options • iPC A1UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module 4 Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID 5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

Product Code (iPC): R1304WT2GS  1U – 4 x 3.5" HDD or 4 x 2.5" SSD front mount drives	Order Code Information: MM# – 935059 UPC – 00735858288743 EAN – 5032037068024 MOQ – 1	Product Type: L6 Integrated System Chassis Form Factor: 1U rack mount Chassis dimensions: L=712mm, W=439mm, H=43.2mm Packaged Gross Weight: 21.3 Kgs, 47.0 Lbs Un-packaged Net Weight: 12.3 Kgs, 27.1 Lbs Outer Box Dimensions: L=983mm, W=577mm, H=260mm
Product Definition and Configuration Requirements/Options		
<p><u>Intel product code R1304WT2GS includes the following components:</u></p> <ul style="list-style-type: none"> (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 1GbE – iPC S2600WT2 (2) – Riser card assembly with single x16 PCIe* slot riser card – iPC F1UL16RISER2 (1) – 750W power supply module - iPC FXX750PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (4) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC FR1304S3HSBP • Includes (4) 3.5" hot swap drive trays – iPC FXX35HSCAR (1) – 800mm SAS/SATA Multiport data cable – iPC AXXCBL1UHRHD (1) – 350mm Backplane power cable – iPN H38458-00x (1) – 150mm Backplane I2C cable – iPN H39941-00x (1) – Air duct (6) – Dual rotor system fans – iPC FR1UFAN10PW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 550mm optical drive power cable – iPN G95880-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle installed (1 set) – iPN H19171-00x <p>Spares for each screw type included</p>	<p><u>Required Items – Sold Separately:</u></p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p><u>Optional Intel Accessories – Sold Separately</u></p> <ul style="list-style-type: none"> • iPC FXX750PCRPS – 2nd 750W AC Power supply module – to support power redundancy • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cable – Depending on the location of the SAS Data controller, a new data cable may be necessary. See chapter 4.2.1 • Intel® I/O Module - See chapter 5.8 for available options • iPC A1UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module 4 Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID 5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

Product Code (iPC): R1208WTTGS  1U – 8 x 2.5" front mount drives	Order Code Information: MM# – 934968 UPC – 00735858289429 EAN – 5032037068406 MOQ – 1	Product Type: L6 Integrated System Chassis Form Factor: 1U rack mount Chassis dimensions: L=712mm, W=439mm, H=43.2mm Packaged Gross Weight: 21.1 Kgs, 46.5 Lbs Un-packaged Net Weight: 12.9 Kgs, 28.4 Lbs Outer Box Dimensions: L=983mm, W=577mm, H=260mm
Product Definition and Configuration Requirements/Options		
<p>Intel product code R1208WTTGS includes the following components:</p> <ul style="list-style-type: none"> (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (2) – Riser card assembly with single x16 PCIe* 3.0 slot riser card – F1UL16RISER2 (1) – 750W power supply module – iPC FXX750PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (1) – Air duct (6) – Dual rotor system fans – iPC FR1UFAN10PW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) <ul style="list-style-type: none"> • If removed, can be used as an optical drive bay. • Includes optical drive mounting latch kit – iPN H19168-00x • Includes optical drive power cable – iPN H23851-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC F1U8X25S3HSBP • Includes (8) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (1) – 730mm SAS/SATA Multiport data cable – iPC AXXCBL730HRHD (1) – 800mm SAS/SATA Multiport data cable – iPC AXXCBL800HRHD (1) – Backplane power cable – iPN H38458-00x (1) – 200mm Backplane I2C cable – iPN H23846-00x (2) – CPU heatsink – iPC FXXCA84X106HS (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed - iPN H19171-00x <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • iPC FXX750PCRPS – 2nd 750W AC Power supply module – to support power redundancy • Intel® 12G SAS RAID module + RMFBU – See chapter 5.9 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.2 • Intel® I/O Module – See chapter 5.8 for available options • iPC A1U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – replaces existing backplane and requires use of one PCIe* slot. See chapter 5.1 and/or System TPS for details • iPC A1UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE – Intel® Remote Management Module Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID 5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

Product Code (iPC): R1208WT2GS  1U – 8 x 2.5" front mount drives	Order Code Information: MM# - 935060 UPC – 00735858288897 EAN – 5032037068178 MOQ – 1	Product Type: L6 Integrated System Chassis Form Factor: 1U rack mount Chassis dimensions: L=712mm, W=439mm, H=43.2mm Packaged Gross Weight: 21.1 Kgs, 46.5 Lbs Un-packaged Net Weight: 12.9 Kgs, 28.4 Lbs Outer Box Dimensions: L=983mm, W=577mm, H=260
Product Definition and Configuration Requirements/Options		
Intel product code R1208WT2GS includes the following components: (1) – 1U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 1GbE – iPC S2600WT2 (2) – Riser card assembly with single x16 PCIe* 3.0 slot riser card – F1UL16RISER2 (1) – 750W power supply module - iPC FXX750PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (1) – Air duct (6) – Dual rotor system fan – iPC FR1UFAN10PW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) <ul style="list-style-type: none"> If removed, can be used as an optical drive bay. Includes optical drive mounting latch kit – iPN H19168-00x Includes optical drive power cable – iPN H23851-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> Includes (1) 12 Gb SAS backplane – iPC F1U8X25S3HSBP Includes (8) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (1) – 730mm SAS/SATA Multiport data cable – iPC AXXCBL730HRHD (1) – 800mm SAS/SATA Multiport data cable – iPC AXXCBL800HRHD (1) – Server board to backplane power cable – iPN H38458-00x (1) – Server board to backplane I2C cable – iPN H39941-00x (2) – CPU heatsink – iPC FXXCA84X106HS (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H19171-00x Spares for each screw type included	Required Items – Sold Separately: <ul style="list-style-type: none"> Rack Mount Kit – See chapter 5.11 for available options 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family ECC DDR4 memory (RDIMM or LRDIMM) Power Cord(s) – See chapter 5.10 NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord	Optional Intel Accessories – Sold Separately <ul style="list-style-type: none"> iPC FXX750PCRPS – 2nd 750W AC Power supply module – to support power redundancy Intel® 12G SAS RAID module + RMFBU – See chapter 5.9 for available options SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.2 Intel® I/O Module – See chapter 5.8 for available options iPC A1U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – replaces existing backplane and requires use of one PCIe* slot. See chapter 5.1 and/or System TPS for details iPC A1UBEZEL – Lockable front system bezel iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID 5 support key Storage Drives See Chapter 5 for all available accessory options.

3.2 Intel® Server System R2000WT Product Family SKUs – (2U Rack Mount System)

The product tables found in this section provide order code information and detailed descriptions for the specified L6 integrated 2U Intel server system. The lower sections of each table identify:

- The ship along components of the specified chassis product code – (product BOM)
- **Required Items** – The options required to be installed to the base system to achieve basic functionality using the default system feature set
- **Optional Accessories** – Some of the available accessories which can be installed to enhance the basic feature set of the server board / chassis. Additional accessories can be found in Chapter 5

NOTES:

- Each **required item** and **optional accessory** is sold separately from the specified Intel L6 server system
- Items identified as **iPC** (Intel Product Code), are an orderable building block option, accessory or spare FRU
- In an effort to provide the complete product bill of materials, the ship along components list in each product table will include items identified by description and by **iPN** (Intel Part Number). The iPN information is provided for reference only. These components are **not** orderable as a spare or accessory.

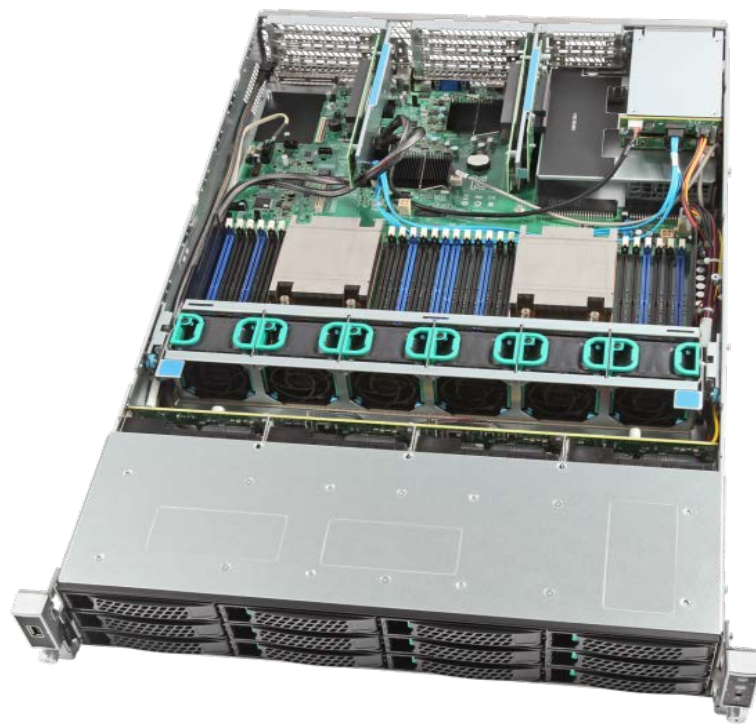
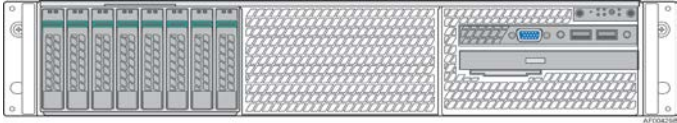
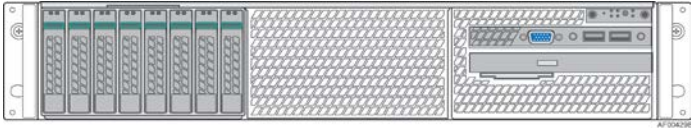
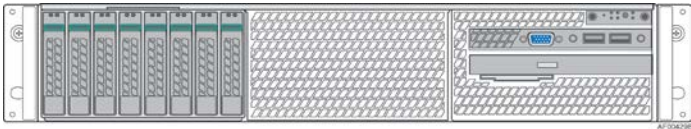
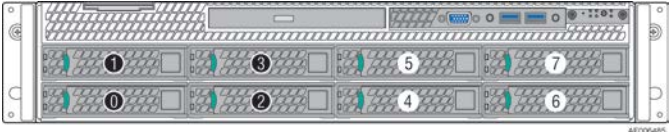


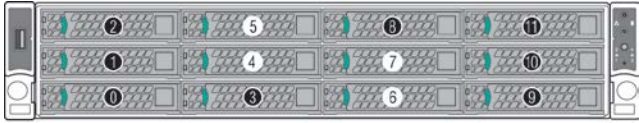
Figure 6. Intel® Server System R2000WT – L6 Integrated 2U System *R2312WTxxx shown

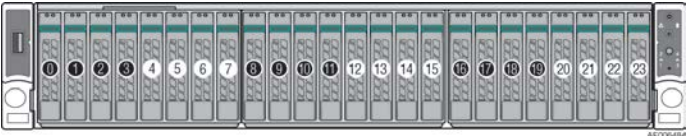
<p>Product Code (iPC):</p> <p>R2208WT2YS</p>  <p>2U – 8 x 2.5" front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936032</p> <p>UPC – 00735858289436</p> <p>EAN – 5032037068413</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 22.9 Kgs, 50.5 Lbs</p> <p>Un-packaged Net Weight: 16.2 Kgs, 35.7 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements/Options		
<p>Intel product code R2208WT2YS includes the following:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 1GbE – iPC S2600WT2 (1) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> ○ Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2 ○ Includes (1) 2-slot low profile PCIe* riser card – iPC A2UX8X4RISER (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (1) – Standard control panel assembly (board only – iPC FXFXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 300mm optical drive / internal mount SSD power cable – iPN H23901-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12Gb SAS backplane – iPC A2U8X25S3HSDK • Includes (8) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (2) – Multiport 730mm SAS/SATA data cables – iPC AXXCBL730HDHD (1) – Backplane 250mm I2C cable – iPN G41809-00x (1) – Backplane power cable – iPN H23927-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H18229-xxx (1) – 3x RMFBU Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • iPC AXX1100PCRPS – 1100W AC Power Supply Module – to support power redundancy • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.5 • iPC A2U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – requires use of one PCIe* slot. See chapter 5.2 and/or System TPS for details • 8x2.5" Drive Bay Module upgrade kit. See chapter 5.5 for available options. • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE – Intel® Remote Management Module Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID-5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Product Code (iPC):</p> <p>R2208WTTYS</p>  <p>2U – 8 x 2.5" front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936023</p> <p>UPC – 00735858289450</p> <p>EAN – 5032037068437</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 22.9 Kgs, 50.5 Lbs</p> <p>Un-packaged Net Weight: 16.2 Kgs, 35.7 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
<p align="center">Product Definition and Configuration Requirements/Options</p>		
<p><u>Intel product code R2208WTTYS includes the following:</u></p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (1) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> ○ Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2 ○ Includes (1) 2-slot low profile PCIe* riser card – iPC A2UX8X4RISER (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (1) – Standard control panel assembly (board only – iPC FXFXPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 300mm optical drive / internal mount SSD power cable – iPN H23901-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12Gb SAS backplane – iPC A2U8X25S3HSDK • Includes (8) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (2) – Multiport 730mm SAS/SATA data cables – iPC AXXCBL730HDHD (1) – Backplane 250mm I2C cable – iPN G41809-00x (1) – Backplane power cable – iPN H23927-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H18229-xxx (1) – 3x RMFBU Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p><u>Required Items – Sold Separately:</u></p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p><u>Optional Intel Accessories – Sold Separately</u></p> <ul style="list-style-type: none"> • iPC AXX1100PCRPS – 1100W AC Power Supply Module – to support power redundancy • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.5 • iPC A2U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – requires use of one PCIe* slot. See chapter 5.2 and/or System TPS for details • 8x2.5" Drive Bay Module upgrade kit. See chapter 5.5 for available options. • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID-5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Product Code (iPC):</p> <p>R2208WTTYC1</p>  <p>2U – 8 x 2.5" front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936033</p> <p>UPC – 00735858289443</p> <p>EAN – 5032037068420</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Special – Features to support passive Intel® Xeon Phi™ coprocessor</p> <p>NOTE: Intel® Xeon Phi™ cards with Active heat sinks are NOT supported in this SKU.</p> <p>Chassis Form Factor: 2U</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 22.9 Kgs, 50.5 Lbs</p> <p>Un-packaged Net Weight: 16.2 Kgs, 35.7 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements/Options		
<p>Intel product code R2208WTTYC1 includes the following:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (2) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> ○ Includes (2) 2-slot PCIe* riser cards – iPC A2UL16RISER2 ○ Includes (1) 2-slot low profile PCIe* riser card – iPC A2UX8X4RISER (1) – High air flow air duct (iPC AWTCOPRODUCT) (1) – Intel® Xeon Phi™ / GPGPU Secure Mount Adapter Bracket kit (2) – 12V-Auxiliary Power Cables – iPC AXXGPGPUCABLE (6) – Hot swap system fans – iPC FR2UFAN60HSW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 300mm optical drive / internal mount SSD power cable – iPN H23901-00x (8) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC A2U8X25S3HSDK • Includes (8) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (2) – Multiport 730mm SAS/SATA data cables – iPC AXXCBL730HDHD (1) – Backplane 250mm I2C cable – iPN G41809-00x (1) – Backplane power cable – iPN H23927-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H18229-xxx (1) – 3x RMFBU Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (2) AC power cords</p>	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.5 • iPC A2U44X25NVMEDK – (4) PCIe* SSD SFF (NVMe*) + (4) SAS support – requires use of one PCIe* slot. See chapter 5.2 and/or System TPS for details • 8x2.5" Drive Bay Module upgrade kit. See chapter 5.5 for available options. • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID-5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Product Code (iPC):</p> <p>R2308WTTYS</p>  <p>2U – 8 x 3.5" HDD or 8 x 2.5" SSD front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936035</p> <p>UPC – 00735858283854</p> <p>EAN – 5032037064866</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 23.5 Kgs, 51.8 Lbs</p> <p>Un-packaged Net Weight: 16.1 Kgs, 35.5 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements/Options		
<p>Intel product code R2308WTTYS includes the following:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (1) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> ○ Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2 ○ Includes (1) 2-slot low profile PCIe* riser card – iPC A2UX8X4RISER (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (1) – Standard control panel assembly (board only – iPC FXXFPANEL) (1) – Front I/O Panel assembly (1 x VGA and 2 x USB) (1) – SATA Optical drive bay with filler panel – (optical drive sold separately) <ul style="list-style-type: none"> • Includes optical drive mounting latch kit – iPN H19168-00x • Includes 500mm optical drive / internal mount SSD power cable – iPN G95878-00x (8) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC F2U8X35S3HSBP • Includes (8) 3.5" hot swap drive carriers – iPC FXX35HSCAR (1) – Backplane power cable – iPN H38457-00x (1) – Multiport 800mm SAS/SATA data cables – iPC AXXCBL800HDHD (1) – Multiport 950mm SAS/SATA data cables – iPC AXXCBL950HDHD (1) – Backplane I2C cable – iPN G92510-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (8) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) installed – iPN H18229-xxx (1) – 3x RMFBU Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • iPC AXX1100PCRPS – 1100W AC Power Supply Module – to support power redundancy • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFBU - See chapter 5.9 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.3 • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features • iPC RKSATA4R5 – Embedded SATA ESRT2 SW RAID-5 support key • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Product Code (iPC):</p> <p>R2312WTTY5</p>  <p>2U – 12 x 3.5" HDD or 12 x 2.5" SSD front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936036</p> <p>UPC – 00735858289474</p> <p>EAN – 5032037068451</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Chassis Form Factor: 2U rack mount</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 24.4 Kgs, 53.8 Lbs</p> <p>Un-packaged Net Weight: 17.0 Kgs, 37.5 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements/Options		
<p><u>Intel product code R2312WTTY5 includes the following:</u></p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (1) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> o Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2 (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (2) – Chassis Handles (1 set) installed – includes Integrated control panel & USB Port – iPC A2UHANDLKIT (1) – 500mm internal mount SSD power cable – iPN G95878-00x (12) – 3.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (1) 12 Gb SAS backplane – iPC F2U12X35S3HSBP • Includes (12) 3.5" hot swap drive carriers – iPC FXX35HSCAR (1) – Multiport 800mm SAS/SATA data cable – iPC AXXCBL800HDHD (1) – Multiport 875mm SAS/SATA data cable – iPC AXXCBL875HDHD (1) – Multiport 950mm SAS/SATA data cable – iPC AXXCBL950HDHD (1) – Backplane I2C cable – iPN G92510-00x (1) – Backplane power cable – iPN G92685-00x (2) – 2.5" Rear Mount Hot Swap Drive Bays with drive carriers, drive blanks, SATA data/SGPIO cable harness, and I2C cable (Intel Accessory Kit – iPC A2UREARHSDK) (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (16) – DIMM slot blanks – iPN G75158-00x (1) – 3x RMFB� Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p><u>Required Items – Sold Separately:</u></p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p><u>Optional Intel Accessories – Sold Separately</u></p> <ul style="list-style-type: none"> • iPC AXX1100PCRPS – 1100W AC Power Supply Module – to support power redundancy • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFB� - See chapter 5.9 for available options • Intel® SAS Expander – See Chapter 4.6.2 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.4 • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

<p>Product Code (iPC):</p> <p>R2224WTTYS</p>  <p>2U – 24 x 2.5" front mount drives</p>	<p>Order Code Information:</p> <p>MM# – 936037</p> <p>UPC – 00735858289467</p> <p>EAN – 5032037068444</p> <p>MOQ – 1</p>	<p>Product Type: L6 Integrated System</p> <p>Chassis Form Factor: 2U</p> <p>Chassis dimensions: L=712mm, W=439mm, H=89mm</p> <p>Packaged Gross Weight: 25.0 Kgs, 55.1 Lbs</p> <p>Un-packaged Net Weight: 18.3 Kgs, 40.3 Lbs</p> <p>Outer Box Dimensions: L=983mm, W=577mm, H=260mm</p>
Product Definition and Configuration Requirements/Options		
<p>Intel product code R2224WTTYS includes the following:</p> <ul style="list-style-type: none"> (1) – 2U Chassis with Quick Reference Label affixed to top cover (1) – Intel® Server Board S2600WT w/ Dual 10GbE – iPC S2600WTT (1) – 1100W AC Power Supply Module – iPC AXX1100PCRPS (1) – Power supply bay blank insert (2) – AC Power Cord retention strap assembly – iPN H23961-00x (2) – PCIe Riser card brackets <ul style="list-style-type: none"> ○ Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2 (1) – Air duct (6) – Hot swap system fans – iPC FR2UFAN60HSW (2) – Chassis Handles (1 set) installed – includes Integrated control panel & USB Port – iPC A2UHANDLKIT (24) – 2.5" Hot-swap drive bays with drive carriers and drive blanks <ul style="list-style-type: none"> • Includes (3) 12 Gb SAS backplanes – iPC A2U8X25S3HSDK • Includes (24) 2.5" hot swap drive trays – iPC FXX25HSCAR2 • Includes (2) backplane to backplane I2C jumper cables – iPN G17347-00x (1) – Backplane power cable – iPN H23927-00x (2) – 2.5" Rear Mount Hot Swap Drive Bays with drive carriers, drive blanks, SATA data/SGPIO cable harness, and I2C cable (Intel Accessory Kit – iPC A2UREARHSDK) (2) – Multiport 730mm SAS/SATA data cables – iPC AXXCBL730HDHD (4) – Multiport 875mm SAS/SATA data cables – iPC AXXCBL875HDHD (1) – Backplane 250mm I2C cable – iPN G41809-00x (1) – Rear Backplane power cable – iPN H24615-00x (2) – CPU heatsinks – iPC FXXCA84X106HS (2) – CPU heat sink Mylar Spacer inserts – iPN H28618-00x (16) – DIMM slot blanks – iPN G75158-00x (2) – Chassis handle (1 set) – iPN H18229-xxx (1) – 3x RMFB� Mounting Bracket – iPN H18238-00x <p>Spares for each screw type included</p>	<p>Required Items – Sold Separately:</p> <ul style="list-style-type: none"> • Rack Mount Kit – See chapter 5.11 for available options • 1 or 2 Intel® Xeon® Processor E5-2600 v3 product family • ECC DDR4 memory (RDIMM or LRDIMM) • Power Cord(s) – See chapter 5.10 <p>NOTE: L6 Systems shipping from Intel to North America will include (1) AC power cord</p>	<p>Optional Intel Accessories – Sold Separately</p> <ul style="list-style-type: none"> • iPC AXX1100PCRPS – 1100W AC Power Supply Module – to support power redundancy • Intel® I/O Module - See chapter 5.8 for available options • Intel® 12G SAS RAID module + RMFB� - See chapter 5.9 for available options • Intel® SAS Expander – See Chapter 4.7.4 for available options • SAS Data cables – Depending on the location of the SAS Data controller, new data cables may be necessary. See chapter 4.2.5 • iPC A2UBEZEL – Lockable front system bezel • iPC AXXRMM4LITE - Intel® Remote Management Module Lite key – For advanced management features • Storage Drives <p>See Chapter 5 for all available accessory options.</p>

4. SAS / SATA Data Cable Guide


By default, all L6 integrated system will include SAS / SATA data cables routed from the front hot swap backplane to the on-board SATA controller connectors. SAS data cables may need to be ordered separately when adding a SAS RAID module or SAS RAID PCIe* add-in card to an integrated system SKU.

SAS / SATA data cables are NOT included with any of the chassis only building block SKUs. They must be ordered separately to match the desired system configuration.

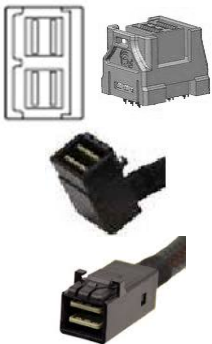
4.1 SAS / SATA Data Cable Connector Types

There are three storage interface connector types used within this product family:


Single Port SATA Connector

Image	Description
	<p>7-pin Single Port SATA Support for up to 6 GB/sec SATA devices</p> <p>Where used:</p> <ul style="list-style-type: none"> - On the server board – (2) single port SATA connectors (SATA 4, SATA 5) - 2U Rear Mount Hot-Swap Backplane (iPC A2UREARHSDK) - SATA Optical Drive – CD/DVD - SATA DOM

Multiport MiniSAS HD Connectors

Image	Description
	<p>SFF-8643</p> <ul style="list-style-type: none"> • Support for up to 12 Gb/Sec SAS and 6 Gb/sec SATA devices • PCIe* (NVMe) SFF support associated with Intel Accessory Kits A1U44X25NVMEDK & A2U44X25NVMEDK <p>Where used:</p> <ul style="list-style-type: none"> - On the server board – (2) 4-port SATA connectors (SATA 0-3, sSATA 0-3) - All 12 Gb/sec SAS capable hot swap backplanes - All 12 Gb/sec SAS RAID Controllers - All 12 Gb/sec SAS Expander Cards




Multiport MiniSAS Connector

Image	Description
	<p>SFF-8087</p> <p>Support for up to 6 Gb/Sec SAS / SATA devices</p> <p>Where used:</p> <ul style="list-style-type: none"> - All 6 Gb/sec SAS RAID Controllers - All 6 Gb/sec SAS Expander Cards

When connecting a 6Gb/sec SAS Controller or SAS Expander to a 12 Gb/sec capable hot swap backplane, the data cables used will need a SFF-8643 connector on one end of the cable and a SFF-8087 connector on the other. See Table 11. Storage Data Cable Kit Description and Order Information for appropriate cable kits.

4.2 1U / 2U Server System SAS / SATA Cable Guide

Product tables in this section will reference SAS/SATA cables using different connector types to meet the connection and routing requirements for the specified system configuration. Each cable reference and product code will identify the connector type at each end of the cable using the following identifiers: **HR**, **HD**, and **MS**. The following table identifies the three cable connector types and their identifiers.

	HR = Right Angle SFF-8643 Mini SAS HD Connector
	HD = Straight SFF-8643 Mini SAS HD Connector
	MS = Straight SFF-8087 Mini SAS Connector (compatible with 6Gb/sec SAS controllers and expanders)

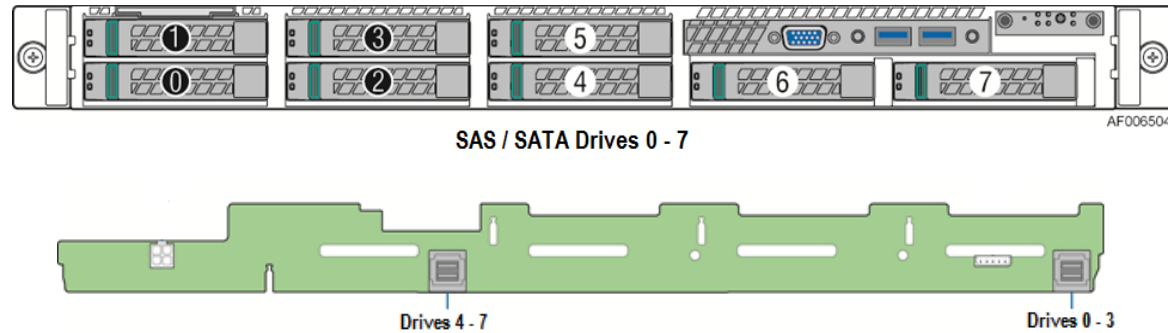
Cable Kit Product Code Example - **AXXCBL950HDMS**

AXXCBL – Identifies an accessory cable kit

950 – identifies the length of the cable

HD – identifies that one end of cable connector supports SFF-8643 connector

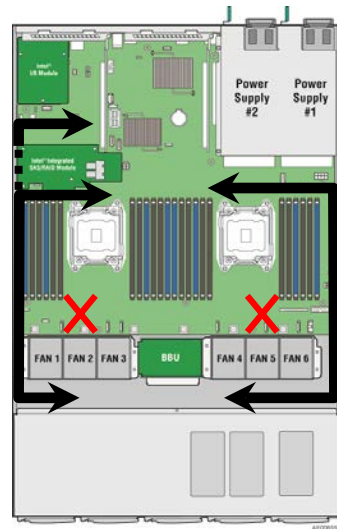
System illustrations in each of the following sections will denote drive numbering as shown below:



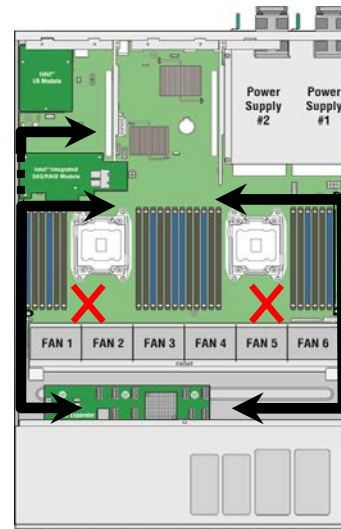
Drive numbering in the system illustrations is for general reference only. Actual drive numbering will be dependant on SAS / SATA controller configuration and how they are cabled to the backplane. Each installed backplane will include a multi-port data connector for each set of four drives. Example) for an 8 drive configuration (as shown above), the backplane will include 2 four port data connectors. In the illustration, drives showing a common color for the Drive ID label will share a common data connector on the backside of the backplane.

Each table in the following sections identify the cable connections and recommended cable lengths for each supported storage controller option in the specified system. Each "recommended" cable length for a given connector pair provides enough cable to attach the two devices and provides the least amount of access cable, providing the cleanest cable routing.

In the given server system, no cables should be routed in front of the system fans or in between the processors and memory slots. All cables that require routing from the front of the system to the back, are routed within the cable channels along the chassis sidewalls.

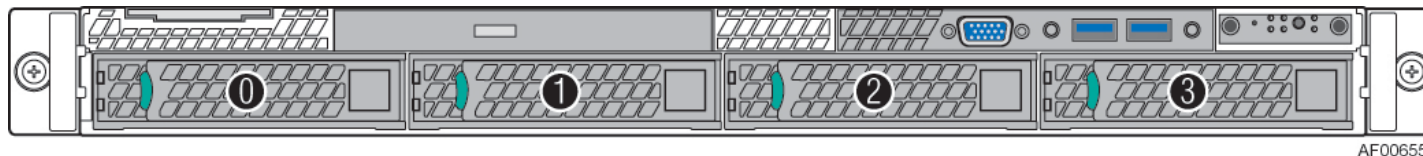


**Intel® Server System R1000WT
product family cable routing**



**Intel® Server System R2000WT
product family cable routing**

4.2.1 1U 4 x 3.5" – R1304WTxxx SAS / SATA Data Cable Guide

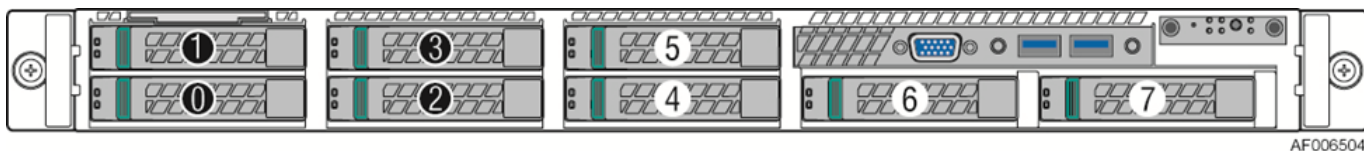


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System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Mezzanine 6 Gb SAS RAID module to Backplane	Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane
R1304WTxxx R1304WTTGS R1304WT2GS	4 x 3.5" 12 Gb SAS capable	Cable Connections: SATA -> BP 0-3 800 mm HR --- HD From data above, select appropriate cable kit from list below: AXXCBL1UHRHD Cable included with L6 Integrated systems	Cable Connections: SAS Mezz -> BP 0-3 800 mm HD --- HD From data above, select appropriate cable kit from list below: AXXCBL800HDHD	Cable Connections: SAS Mezz -> BP 0-3 800 mm HD --- MS From data above, select appropriate cable kit from list below: AXXCBL800HDMS	From Riser #1 Cable Connections: SAS PCIe -> BP 0-3 ** 875 or 950 mm HD --- HD From Riser #2 Cable Connections: SAS PCIe -> BP 0-3 ** 730 or 875 mm HD --- HD From data above, select appropriate cable kits from list below: See ** note below AXXCBL730HDHD AXXCBL875HDHD AXXCBL950HDHD	From Riser #1 Cable Connections: SAS PCIe -> BP 0-3 ** 875 or 950 mm HD --- MS From Riser #2 Cable Connections: SAS PCIe -> BP 0-3 ** 730 or 875 mm HD --- MS From data above, select appropriate cable kits from list below: See ** note below AXXCBL730HDMS AXXCBL875HDMS AXXCBL950HDMS

** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.

4.2.2 1U 8 x 2.5" – R1208WTxxx SAS / SATA Data Cable Guide



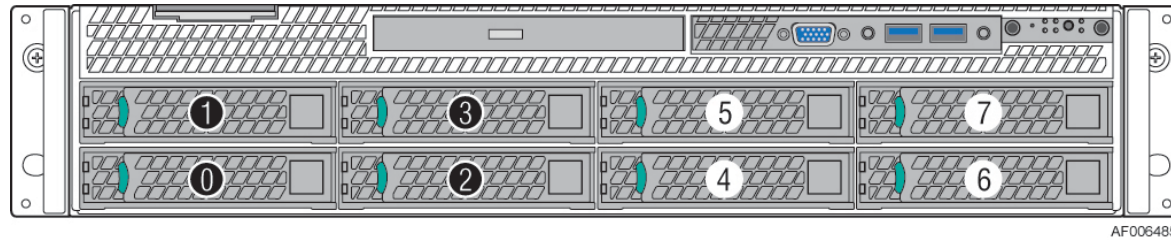
SAS / SATA Drives 0 - 7

Note: For data cable information associated with Intel® Accessory Kit A2U44X25NVMEDK, see section 5.1.1

System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Mezzanine 6 Gb SAS RAID module to Backplane	Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane
R1208WTxxx R1208WTTGS R1208WT2GS	8 x 2.5" 12 Gb SAS capable	Cable Connections: SATA -> BP 0-3 730 mm HR --- HD sSATA -> BP 4-7 800 mm HR --- HD From data above, select appropriate cable kits from list below: AXXCBL1UHRHD 1 of each cable included with L6 Integrated systems	Cable Connections: SAS Mezz -> BP 0-3 650 mm HD --- HD SAS Mezz -> BP 4-7 800 mm HD --- HD From data above, select appropriate cable kits from list below: AXXCBL650HDHD AXXCBL800HDHD	Cable Connections: SAS Mezz -> BP 0-3 650 mm HD --- MS SAS Mezz -> BP 4-7 800 mm HD --- MS From data above, select appropriate cable kits from list below: AXXCBL650HDMS AXXCBL800HDMS	From Riser #1 Cable Connections: SAS PCIe -> BP 0-3 650 mm HD --- HD SAS PCIe -> BP 4-7 ** 730 or 800 mm HD --- HD From Riser #2 Cable Connections: SAS PCIe -> BP 0-3 ** 650 or 730mm HD --- HD SAS PCIe - BP 4-7 ** 800 or 875 mm HD --- HD From data above, select appropriate cable kits from list below: See ** notes below AXXCBL650HDHD AXXCBL730HDHD AXXCBL800HDHD AXXCBL875HDHD	From Riser #1 Cable Connections: SAS PCIe -> BP 0-3 650 mm HD --- MS SAS PCIe -> BP 4-7 ** 730 or 800 mm HD --- MS From Riser #2 Cable Connections: SAS PCIe -> BP 0-3 ** 650 or 730mm HD --- MS SAS PCIe - BP 4-7 ** 800 or 875 mm HD --- MS From data above, select appropriate cable kits from list below: See ** notes below AXXCBL650HDMS AXXCBL730HDMS AXXCBL800HDMS AXXCBL875HDMS

** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.

4.2.3 2U 8 x 3.5" – R2308WTxxx Cable Guide

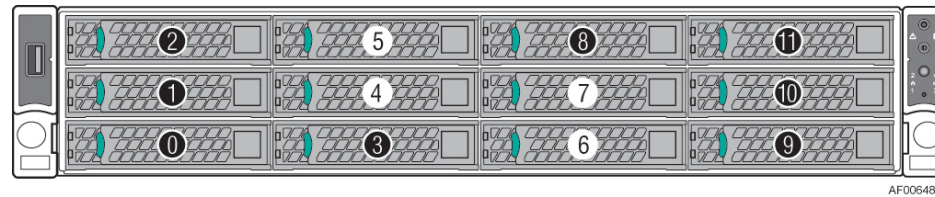


AF006485

System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Mezzanine 6 Gb SAS RAID module to Backplane	Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane
R2308WTTYS	8 x 3.5" 12 Gb SAS Capable	<p>Cable Connections: SATA -> BP 0-3 800 mm HD --- HD</p> <p>sSATA -> BP 4-7 950 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDHD AXXCBL950HDHD</p> <p>1 of each cable included with L6 Integrated systems</p>	<p>Cable Connections: SAS Mezz -> BP 0-3 800 mm HD --- HD</p> <p>SAS Mezz -> BP 4-7 950 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDHD AXXCBL950HDHD</p> <p>1 of each cable included with L6 Integrated systems</p>	<p>Cable Connections: SAS Mezz -> BP 0-3 800 mm HD --- MS</p> <p>SAS Mezz -> BP 4-7 950 mm HD --- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDMS AXXCBL950HDMS</p>	<p>From Riser #1: Cable Connections: SAS PCIe -> BP 0-3 ** 650 or 730 mm HD --- HD SAS PCIe -> BP 4-7 ** 800 or 950 mm HD --- HD</p> <p>From Riser #2: Cable Connections: SAS PCIe -> BP 0-3 ** 730 or 800 mm HD --- HD SAS PCIe -> BP 4-7 ** 730 or 800 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below: See ** Notes below</p> <p>AXXCBL650HDHD AXXCBL730HDHD AXXCBL800HDHD (1) 800mm Included in L6 AXXCBL950HDHD (1) 950mm Included in L6</p>	<p>From Riser #1: Cable Connections: SAS PCIe -> BP 0-3 ** 650 or 730 mm HD --- MS SAS PCIe -> BP 4-7 ** 800 or 950 mm HD --- MS</p> <p>From Riser #2: Cable Connections: SAS PCIe -> BP 0-3 ** 730 or 800 mm HD --- MS SAS PCIe -> BP 4-7 ** 730 or 800 mm HD --- MS</p> <p>From data above, select appropriate cable kits from list below: See ** Notes below</p> <p>AXXCBL650HDMS AXXCBL730HDMS AXXCBL800HDMS AXXCBL950HDMS</p>

** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.

4.2.4 2U 12 x 3.5 – R2312WTxxx Cable Guide






R2312WTxxx SAS / SATA Data Cable Guide (with No SAS Expander)

System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Onboard SATA controller + Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Onboard SATA Controller + Mezzanine 6 Gb SAS RAID module to Backplane	Cables for Onboard SATA controller + 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for Onboard SATA controller + 6 Gb SAS RAID PCIe* add-in card to Backplane
R2312WTxxx R2312WTTYS With no SAS Expander installed	12 x 3.5" 12 Gb SAS Capable	Cable Connections: SATA -> BP 0-3 800mm HD --- HD sSATA Cntrl -> BP 4-7 875 mm HD --- HD From data above, select appropriate cable kits from list below: AXXCBL800HDHD AXXCBL875HDHD 1 of each cable included with L6 Integrated systems	Cable Connections: SATA -> BP 0-3 800mm HD --- HD SAS Mezz -> BP 4-7 875 mm HD --- HD SAS Mezz -> BP 8-11 950 mm HD ---HD From data above, select appropriate cable kits from list below: AXXCBL800HDHD AXXCBL875HDHD AXXCBL950HDHD 1 of each cable included with L6 Integrated systems	Cable Connections: SATA -> BP 0-3 800mm HD --- HD SAS Mezz -> BP 4-7 875 mm HD --- MS SAS Mezz -> BP 8-11 950 mm HD ---MS From data above, select appropriate cable kits from list below: AXXCBL800HDHD (1) 800mm Included in L6 AXXCBL875HDMS AXXCBL950HDMS	Cable Connections: SATA -> BP 0-3 800mm HD --- HD <u>From Riser #1</u> SAS PCIe -> BP 4-7 ** 800 or 875 mm HD --- HD SAS PCIe -> BP 8-11 875 mm HD ---HD <u>From Riser #2</u> SAS PCIe -> BP 4-7 ** 730 or 875 mm HD --- HD SAS PCIe -> BP 8-11 ** 650 or 800 mm HD --- HD From data above, select appropriate cable kits: See ** Notes below AXXCBL650HDHD AXXCBL730HDHD AXXCBL800HDHD (1) 800mm Included in L6 AXXCBL875HDHD (1) 875mm Included in L6 AXXCBL950HDHD (1) 950mm included in L6)	Cable Connections: SATA -> BP 0-3 800mm HD --- HD <u>From Riser #1</u> SAS PCIe -> BP 4-7 ** 800 or 875 mm HD --- HD SAS PCIe -> BP 8-11 875 mm HD ---HD <u>From Riser #2</u> SAS PCIe -> BP 4-7 ** 730 or 875 mm HD --- HD SAS PCIe -> BP 8-11 ** 650 or 800 mm HD --- HD From data above, select appropriate cable kits from list below: See ** Notes below AXXCBL650HDMS AXXCBL730HDMS AXXCBL800HDMS AXXCBL875HDMS AXXCBL950HDMS

** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.

2U 12 x 3.5" – R2312WTxxx SAS / SATA Data Cable Guide (with SAS Expander)

SAS drive configurations consisting of more than 8 drives may require the addition of a SAS Expander card. In the 2U 12x3.5" system configuration, the SAS expander must be installed in any available PCIe add-in slot. Intel provides two SAS expander options to support this drive configuration:

Intel Product Code	Order Information	Product Description	Product Type
 <p>iPC – RES3FV288</p> <p>Intel® RAID Expander RES3FV288</p>	<p>MM# – 932895</p> <p>UPC – 00735858287548</p> <p>EAN – 5032037067287</p> <p>MOQ = 5</p>	<p>SAS 3.0 12 Gb/s expander</p> <ul style="list-style-type: none"> Featuring 6Gbps data aggregation for 12Gbps data transfer with 6Gb/s devices Low Profile MD2 PCIe* add-in card form factor 28 internal ports and 8 external ports Redundant dual-port capable for HA and high performance systems Power from PCIe x1 HD Mini-SAS 8643 Connectors <p>Kit includes: (1) SAS Expander card, (2) HD-HD 250mm Expander-to-RAID card cables, PCI brackets for Low profile and Full height</p> <p>Required (sold separately): HD-HD SAS DATA Cables – Expander to backplane – See Table 6</p>	<ul style="list-style-type: none"> 2U Accessory Kit
 <p>iPC – RES2SV240</p> <p>Intel® RAID Expander RES2SV240</p>	<p>MM# – 908137</p> <p>UPC – 00735858216289</p> <p>EAN – 5032037017053</p> <p>MOQ = 5</p>	<p>SAS 2.0 6 Gb/s expander</p> <ul style="list-style-type: none"> Low Profile MD2 PCIe* add-in card form factor 24 Port 6Gb expander card with ports configurable for input or output Power from PCIe x1 or 4-pin connector Mini-SAS 8087 connectors <p>Kit includes: (1) 6 Gb/s SAS Expander card, (2) MS-MS 300mm Expander-to-6Gb/s RAID card cables, PCI brackets for Low profile and Full height , (4) MS-MS 650mm Expander-to-Backplane cables (cables not compatible in R2312WTxxx system)</p> <p>Required (sold separately): MS-HD SAS Data Cables – See Table 6</p>	<ul style="list-style-type: none"> 2U Accessory Kit
 <p>iPC – RES2SV240NC</p> <p>Intel® RAID Expander RES2SV240NC</p>	<p>MM# – 915431</p> <p>UPC – 00735858221375</p> <p>MOQ = 5</p>	<p>SAS 2.0 6 Gb/s expander</p> <ul style="list-style-type: none"> Low Profile MD2 PCIe* add-in card form factor 24 Port 6Gb expander card with ports configurable for input or output Power from PCIe x1 or 4-pin connector Mini-SAS 8087 connectors <p>Kit includes: (1) 6 Gb/s SAS Expander card (with no cables), PCI brackets for Low profile and Full height</p> <p>Required (sold separately): MS-HD SAS Data Cables – See Table 6</p>	<ul style="list-style-type: none"> 2U Accessory Kit

Note: The onboard SATA ports are not compatible with SAS Expander cards. The onboard SATA ports can only be cabled directly to a specified backplane.

Table 6. 2U 12 x 3.5" – R2312WTxxx SAS / SATA Data Cable Guide (with SAS Expander)

System Configuration	Drive Support	On-board Multi-port SATA Ports	Mezzanine 12Gb SAS ROC Module + 12 Gb SAS Expander to Backplane	Mezzanine 6 Gb SAS ROC module + 6 Gb SAS Expander to Backplane	12Gb SAS RAID PCIe* add-in card + 12 Gb SAS Expander to Backplane	6Gb SAS RAID PCIe* add-in card + 6 Gb SAS Expander to Backplane
R2312WTxxx R2312WTTYS With SAS Expander installed	12 x 3.5" 12 Gb SAS Capable	<p>Onboard SATA controllers do not support SAS expanders.</p> <p>If attaching the onboard SATA controller to the Backplane, then use cables that are included in the System SKUs.</p> <p>For building block integration use cable kits: AXXCBL800HDHD AXXCBL875HDHD</p>	<p>With 12 Gb SAS Expander RES3FV288 installed in Riser #1:</p> <ul style="list-style-type: none"> - Use cables in Expander Kit to attach SAS ROC to Expander Card - Use the following cables to attach Expander to Backplane: <p>Expander -> BP 0-3 800 mm HD --- HD</p> <p>Expander -> BP 4-7 875 mm HD --- HD</p> <p>Expander -> BP 8-11 950 mm HD ---HD</p> <p>1 of each cable included with L6 Integrated systems</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDHD AXXCBL875HDHD AXXCBL950HDHD</p>	<p>With 6 Gb SAS Expander RES2SV240 installed in Riser #1:</p> <ul style="list-style-type: none"> - Use cables in Expander Kit to attach SAS ROC to Expander Card - Use the following cables to attach Expander to Backplane: <p>Expander -> BP 0-3 800 mm HD --- MS</p> <p>Expander -> BP 4-7 875 mm HD --- MS</p> <p>Expander -> BP 8-11 950 mm HD ---MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDMS AXXCBL875HDMS AXXCBL950HDMS</p>	<p>With 12 Gb PCIe RAID and 12 Gb SAS Expander RES3FV288 installed in riser #1:</p> <ul style="list-style-type: none"> - Use cables in Expander Kit to attach PCIe SAS card to Expander Card - Use the following cables to attach Expander to Backplane: <p>Expander -> BP 0-3 800 mm HD --- HD</p> <p>Expander -> BP 4-7 875 mm HD --- HD</p> <p>Expander -> BP 8-11 950 mm HD ---HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDHD AXXCBL875HDHD AXXCBL950HDHD</p>	<p>With 6 Gb PCIe RAID and 6 Gb SAS Expander RES2SV240 installed in riser #1:</p> <ul style="list-style-type: none"> - Use cables in Expander Kit to attach PCIe SAS card to Expander Card - Use the following cables to attach Expander to Backplane: <p>Expander -> BP 0-3 800 mm HD --- MS</p> <p>Expander -> BP 4-7 875 mm HD --- MS</p> <p>Expander -> BP 8-11 950 mm HD ---MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL800HDMS AXXCBL875HDMS AXXCBL950HDMS</p>

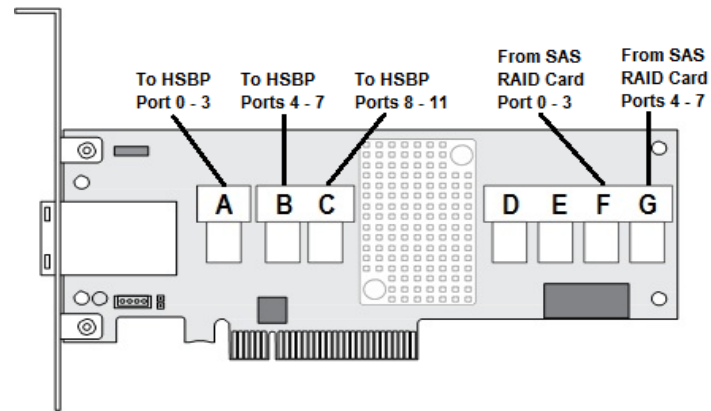


Figure 7. Intel® RAID Expander RES3FV288 Connector Identification

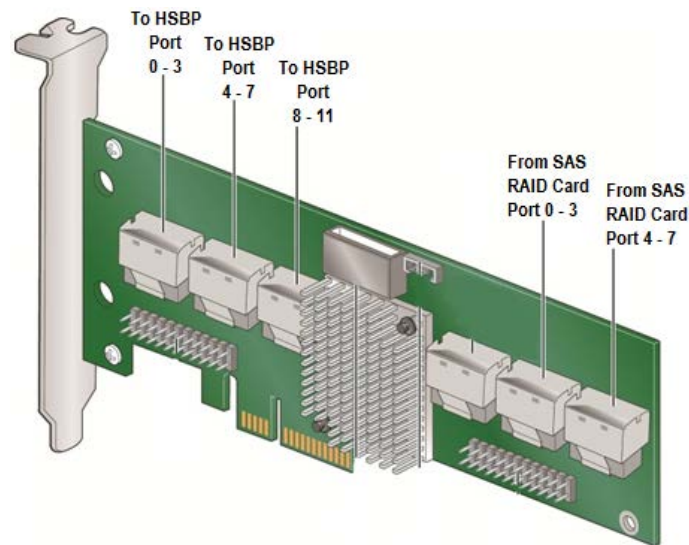
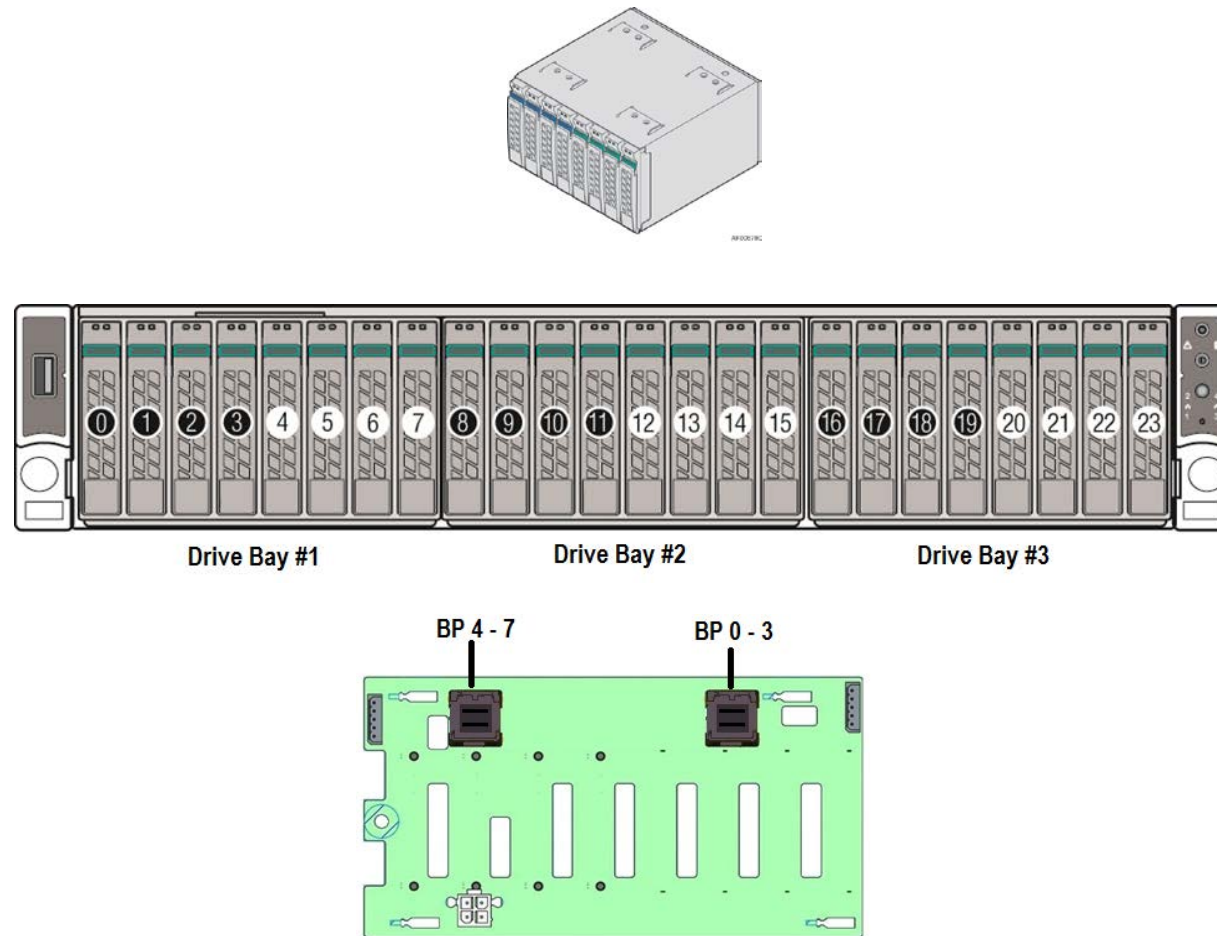


Figure 8. Intel® RAID Expander RES2SV240 Connector Identification

4.2.5 2U 2.5" Front Mount Drive Bay Cable Guide

The front drive bay of the 2U system can support up to three 8x2.5" drive bay modules capable of supporting system configurations of 8 (R2208), 16 (R2216), or 24 (R2224) drives. Each 8x2.5" drive bay is numbered in sequence from 1 to 3, as shown below. Each installed 8x2.5" backplane will include at least two multi-port 8643 data connectors, each supporting a set of four drives. Note that some 8x2.5" backplane options include more than two 8643 connectors in order to support features available to the specific backplane.



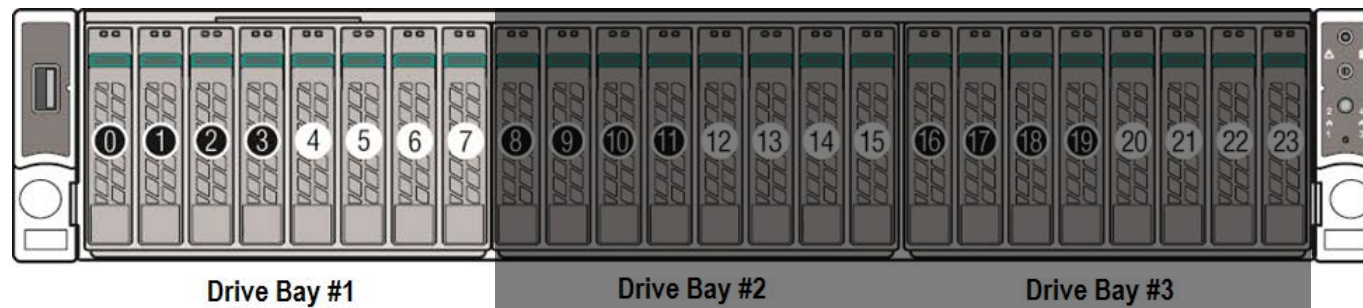
Intel makes available several different 8x2.5" drive bay module options, each supporting a different feature set (see chapter 5). The system tables in this section define the SAS/SATA data cables required to support the specified drive bay location regardless of the backplane option installed.

Reference each table as appropriate to determine the cable requirements relevant to your specific drive bay configuration.

Note: For data cable information associated with Intel® Accessory Kit A2U44X25NVMDK, see sections 5.2.1 and 5.2.2

2U 2.5" Front Mount Drive Configurations – SAS Data Cable Guide (with no SAS Expander)

Table 7. 2U 8 x 2.5" (Drive Bay #1) - SAS/SATA Data Cable Guid (with no SAS Expander)

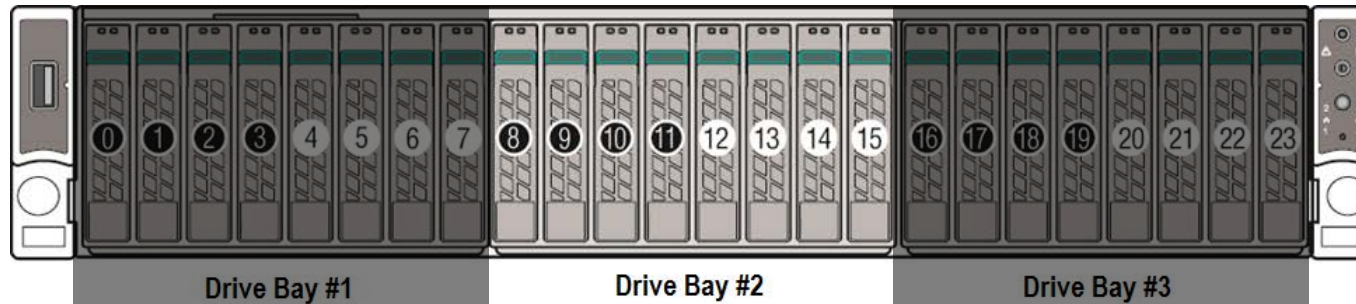


System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Drive Bay #1	Cables for Mezzanine 12 Gb SAS ROC Module to Drive Bay #1	Cables for Mezzanine 6 Gb SAS RAID module to Drive Bay #1	Cables for 12 Gb SAS RAID PCIe* add-in card to Drive Bay #1	Cables for 6 Gb SAS RAID PCIe* add-in card to Drive Bay #1
Drive Bay #1 R2208... R2216... R2224...	8 x 2.5"	<p>Cable Connections: SATA Cntrl -> BP 0-3 730mm HD --- HD</p> <p>sSATA Cntrl -> BP 4-7 730 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDHD</p> <p>(2) 730mm Cables included with all 2.5" L6 Integrated systems</p>	<p>Cable Connections: SAS Mezz -> BP 0-3 730 mm HD --- HD</p> <p>SAS Mezz -> BP 4-7 730 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDHD</p> <p>(2) 730mm Cables included with all 2.5" L6 Integrated systems</p>	<p>Cable Connections: SAS Mezz -> BP 0-3 730 mm HD --- MS</p> <p>SAS Mezz -> BP 4-7 730 mm HD --- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDMS</p>	<p>From Riser #1: Cable Connections:</p> <p>SAS PCIe -> BP 0-3 730 mm HD --- HD SAS PCIe -> BP 4-7 730 mm HD --- HD</p> <p>From Riser #2 SAS PCIe -> BP 0-3 730 mm HD --- HD SAS PCIe -> BP 4-7 730 mm HD --- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDHD</p> <p>(2) 730mm Cables included with all 2.5" L6 Integrated systems</p>	<p>From Riser #1: Cable Connections:</p> <p>SAS PCIe -> BP 0-3 730 mm HD --- MS SAS PCIe -> BP 4-7 730 mm HD --- MS</p> <p>From Riser #2 SAS PCIe -> BP 0-3 730 mm HD --- MS SAS PCIe -> BP 4-7 730 mm HD --- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDMS</p>

**** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.**

For R2216WTxxx System configurations with no SAS Expander, reference Tables 7 and 8 for cabling guidance

Table 8. 2U 8 x 2.5" (Drive Bay #2) – SAS / SATA Data Cable Guide (with no SAS Expander)

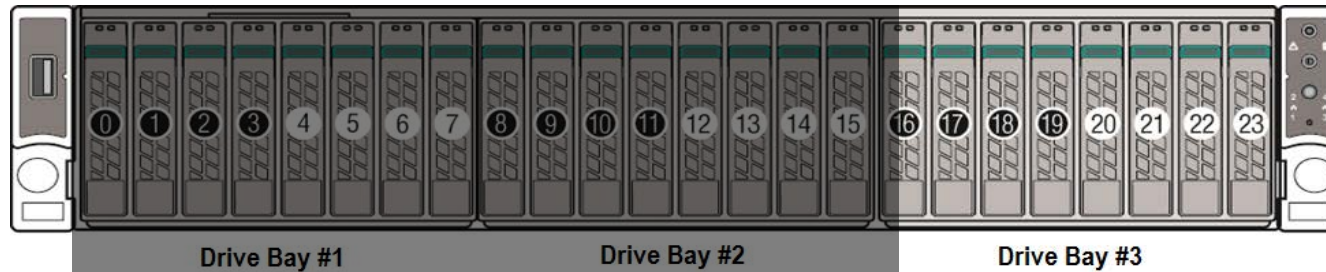


System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Drive Bay #2	Cables for Mezzanine 12 Gb SAS ROC Module to Drive Bay #2	Cables for Mezzanine 6 Gb SAS ROC module to Drive Bay #2	Cables for 12 Gb SAS RAID PCIe* add-in card to Drive Bay #2	Cables for 6 Gb SAS RAID PCIe* add-in card to Drive Bay #2
Drive Bay #2 (no SAS Expander) R2216... R2224...	8 x 2.5"	Cable Connections: SATA Cntlr -> BP 0-3 730mm HD -- HD sSATA Cntrl -> BP 4-7 875mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL730HDHD (730mm Included in all 2.5" L6) AXXCBL875HDHD (875mm Included in R2224 L6)	Cable Connections: SAS Mezz -> BP 0-3 730mm HD -- HD SAS Mezz -> BP 4-7 875mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL730HDHD (730mm Included in all 2.5" L6) AXXCBL875HDHD (875mm Included in R2224 L6)	Cable Connections: SAS Mezz -> BP 0-3 730mm HD -- MS SAS Mezz -> BP 4-7 875mm HD -- MS From data above, select appropriate cable kits from list below : AXXCBL730HDMS AXXCBL875HDMS	From Riser #1: SAS PCIe -> BP 0-3 ** 650 or 730mm HD -- HD SAS PCIe -> BP 4-7 ** 730 or 800mm HD -- HD From Riser #2: SAS PCIe -> BP 0-3 ** 800 or 875mm HD -- HD SAS PCIe -> BP 4-7 ** 730 or 875mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL650HDHD AXXCBL730HDHD (2) 730mm Included in all 2.5" L6 AXXCBL800HDHD AXXCBL875HDHD (4) 875mm Included in R2224 L6)	From Riser #1: SAS PCIe -> BP 0-3 ** 650 or 730mm HD -- MS SAS PCIe -> BP 4-7 ** 730 or 800mm HD -- MS From Riser #2: SAS PCIe -> BP 0-3 ** 800 or 875mm HD -- MS SAS PCIe -> BP 4-7 ** 730 or 875mm HD -- MS From data above, select appropriate cable kits from list below : AXXCBL650HDMS AXXCBL730HDMS AXXCBL800HDMS AXXCBL875HDMS

**** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.**

For R2224WTxxx System configurations with no SAS Expander, reference Tables 7, 8, and 9 for cable guidance for all three drive bay modules.

Table 9. 2U 8 x 2.5" (Drive Bay #3) – SAS / SATA Data Cable Guide (with no SAS Expander)


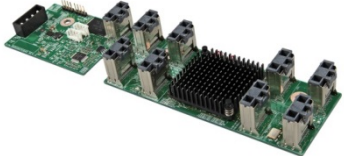


System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Drive Bay #3 Cable Connections:	Cables for Mezzanine 12 Gb SAS ROC Module to Drive Bay #3 Cable Connections:	Cables for Mezzanine 6 Gb SAS ROC module to Drive Bay #3 Cable Connections:	Cables for 12 Gb SAS RAID PCIe* add-in card to Drive Bay #3	Cables for 6 Gb SAS RAID PCIe* add-in card to Drive Bay #3
Drive Bay #3 (no SAS Expander) R2224...	8 x 2.5"	SATA Cntrl -> BP 0-3 800mm HD -- HD sSATA Cntrl -> BP 4-7 730mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL730HDHD (2) 730mm cables Included in all 2.5" L6) AXXCBL800HDHD	SAS Mezz -> BP 0-3 730mm HD -- HD SAS Mezz -> BP 4-7 730mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL730HDHD (2) 730mm cables Included in all 2.5" L6)	SAS Mezz -> BP 0-3 730mm HD -- MS SAS Mezz -> BP 4-7 730mm HD -- MS From data above, select appropriate cable kits from list below : AXXCBL730HDMS	From Riser #1: SAS PCIe -> BP 0-3 ** 730 or 875mm HD -- HD SAS PCIe -> BP 4-7 ** 800 or 950mm HD -- HD From Riser #2: SAS PCIe -> BP 0-3 ** 730 or 875mm HD -- HD SAS PCIe -> BP 4-7 ** 650 or 800mm HD -- HD From data above, select appropriate cable kits from list below : AXXCBL650HDHD AXXCBL730HDHD (2) 730mm Included in all 2.5" L6 AXXCBL800HDHD AXXCBL875HDHD (4) 875mm Included in R2224 L6 AXXCBL950HDHD	From Riser #1: SAS PCIe -> BP 0-3 ** 730 or 875mm HD -- MS SAS PCIe -> BP 4-7 ** 800 or 950mm HD -- MS From Riser #2: SAS PCIe -> BP 0-3 ** 800 or 875mm HD -- MS SAS PCIe -> BP 4-7 ** 650 or 800mm HD -- MS From data above, select appropriate cable kits from list below : AXXCBL650HDMS AXXCBL730HDMS AXXCBL800HDMS AXXCBL875HDMS AXXCBL950HDMS

**** 1 or 2 cable lengths may be specified for a PCIe add-in card. Generally, if the cable connector of the add-in card is located on the back edge of the card, a shorter cable is specified. Cable connectors on the top edge or near the front of the add-in card will require the longer cable length.**

2U 2.5" Front Mount Drive Configurations – SAS Data Cable Guide (with SAS Expander)

SAS drive configurations consisting of more than 8 drives may require the addition of a SAS Expander card. In the 2U 16x2.5" or 24x2.5" system configurations, a SAS expander can be mounted in the area directly behind the drive bays. Intel provides two SAS expander options to support these drive configurations:

Intel Product Code	Order Information	Product Description	Product Type
iPC – RES3TV360  Intel® RAID Expander RES3TV360	MM# – 932894 UPC – 00735858287364 EAN – 5032037067102 MOQ - 5	<ul style="list-style-type: none"> • SAS 3.0 12 Gb/s expander featuring 6Gbps data aggregation for 12Gbps data transfer with 6Gb/s devices • Internal mount mid-plane form factor • 36 internal ports supporting point-to-point 12, 6, and 3 Gb/s data transfer rates • RA 4-pin power connector • HD Mini-SAS 8643 Connectors <p>Kit includes: (1) SAS expander card; (1) 130mm Power cable; (1 set) Expander-to-backplane cables: (4) HD-HD 165mm, (1) HD-HD 300mm, (1) HD-HD 250mm; (3) Rubber Pads; mounting screws</p> <p>Required (sold separately)</p> <ul style="list-style-type: none"> • HD-HD 12 Gb/sec Raid Controller-to-Expander cables – See table section 4.7.3 • HD-MS 6 Gb/s RAID Controller-to-Expander cables – See table section 4.7.3 	<ul style="list-style-type: none"> • 2U Accessory Kit
iPC – RES2CV360  Intel® RAID Expander RES2CV360	MM# – 918935 UPC – 00735858241168 EAN – 5032037035897 MOQ - 1	<ul style="list-style-type: none"> • SAS 2.0 6 Gb/s expander • Internal mount mid-plane form factor • 36 Port 6Gb expander card with ports configurable for input or output • Power from 4-pin connector • Mini-SAS 8087 connectors <p>Kit includes: (1) 6 Gb/s SAS Expander card; (1) 130mm power cable; (3) rubber mounting pads; (1 set) 6 Gb Expander to 6 Gb backplane cables: (3) MS-MS 165mm, (2) MS-MS 185mm, (1) MS-MS 245mm (NOTE: included data cables not compatible in R2312WT... system)</p> <p>Required (sold separately): iPC – AXXCBLEXPDM - MS-HD 6Gb Expander to 12 Gb Backplane Data Cable kit, SAS Data Cables from 6 Gb SAS RAID PCIe/Mezz Card to expander. See Table 10.</p>	<ul style="list-style-type: none"> • 2U Accessory Kit

Note: The onboard SATA ports are not compatible with SAS Expander cards. The onboard SATA ports can only be cabled directly to a specified backplane.

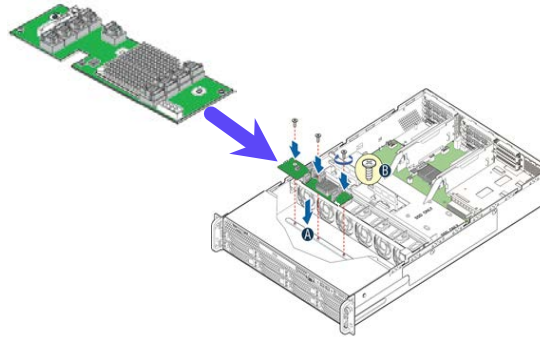


Table 10. 2U 2.5" Front Mount Drive Configurations with SAS Expander – SAS Data Cable Guide

Mezzanine 12Gb SAS ROC Module to 12 Gb SAS Expander	12Gb SAS RAID PCIe* add-in card to 12 Gb SAS Expander	Mezzanine 6 Gb SAS ROC Module to 12 Gb SAS Expander	6Gb SAS RAID PCIe* add-in card to 12 Gb SAS Expander	Mezzanine 6 Gb SAS ROC Module to 6 Gb SAS Expander	6Gb SAS RAID PCIe* add-in card to 6 Gb SAS Expander
<p>12 Gb SAS Expander RES3TV360 installed:</p> <p>SAS Mezz -> Exp 0-3 (G) 730mm HD -- HD</p> <p>SAS Mezz -> Exp 4-7 (H) 730mm HD -- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDHD (2) 730mm cables Included in all 2.5" L6)</p>	<p>12 Gb SAS Expander RES3TV360 installed:</p> <p>From Riser #1: SAS PCIe -> Exp 0-3 (G) 650mm HD -- HD SAS PCIe -> Exp 4-7 (H) 650mm HD -- HD</p> <p>From Riser #2: SAS PCIe -> Exp 0-3 (G) 730mm HD -- HD SAS PCIe -> Exp 4-7 (H) 730mm HD -- HD</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL650HDHD AXXCBL730HDHD (2) 730mm cables Included in all 2.5" L6)</p>	<p>12 Gb SAS Expander RES3TV360 installed:</p> <p>SAS Mezz -> Exp 0-3 (G) 730mm HD -- MS</p> <p>SAS Mezz -> Exp 4-7 (H) 730mm HD -- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730HDMS</p>	<p>12 Gb SAS Expander RES3TV360 installed:</p> <p>From Riser #1: SAS PCIe -> Exp 0-3 (G) 650mm HD --MS SAS PCIe -> Exp 4-7 (H) 650mm HD --MS</p> <p>From Riser #2: SAS PCIe -> Exp 0-3 (G) 730mm HD --MS SAS PCIe -> Exp 4-7 (H) 730mm HD -- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL650HDMS AXXCBL730HDMS</p>	<p>6 Gb SAS Expander RES2CV360 installed:</p> <p>SAS Mezz -> Exp 0-3 (A) 730mm MS -- MS</p> <p>SAS Mezz -> Exp 4-7 (B) 730mm MS -- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL730MSMS</p>	<p>6 Gb SAS Expander RES2CV360 installed:</p> <p>From Riser #1: SAS PCIe -> Exp 0-3 (G) 650mm MS --MS SAS PCIe -> Exp 4-7 (H) 650mm MS --MS</p> <p>From Riser #2: SAS PCIe -> Exp 0-3 (G) 730mm MS --MS SAS PCIe -> Exp 4-7 (H) 730mm MS -- MS</p> <p>From data above, select appropriate cable kits from list below:</p> <p>AXXCBL650MSMS AXXCBL730MSMS</p>
12 Gb SAS Expander to drive bays	12 Gb SAS Expander to drive bays	12 Gb SAS Expander to drive bays	12 Gb SAS Expander to drive bays	6 Gb SAS Expander to drive bays	6 Gb SAS Expander to drive bays
Use cables included in SAS Expander Kit	Use cables included in SAS Expander Kit	Use cables included in SAS Expander Kit	Use cables included in SAS Expander Kit	Cable Kit Required: iPC – AXXCBL730HDMS	Cable Kit Required: iPC – AXXCBL730HDMS

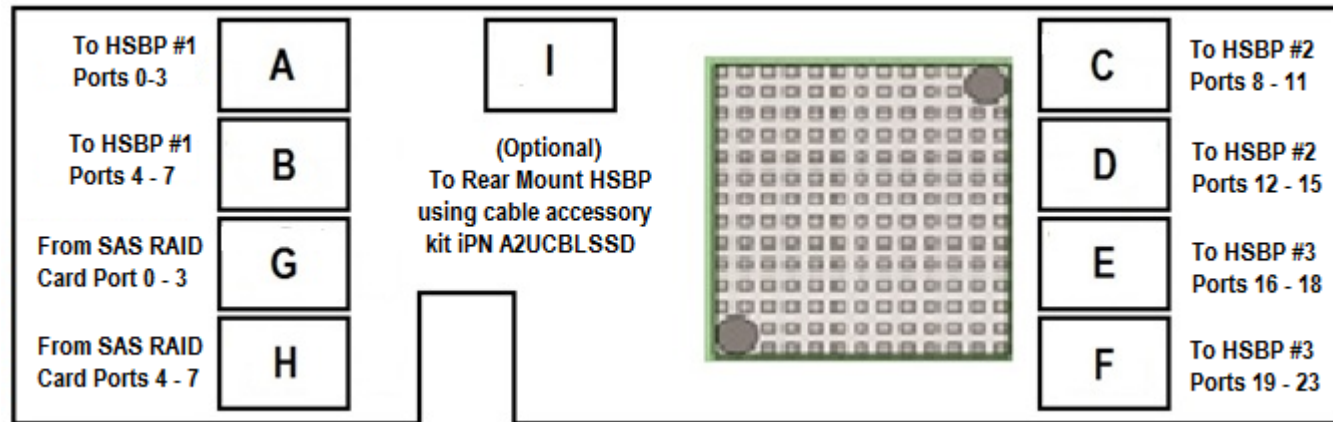


Figure 9. – 12Gb Internal 36-Port Intel® RAID Expander Card RES3TV360 - Connector Identification Block Diagram

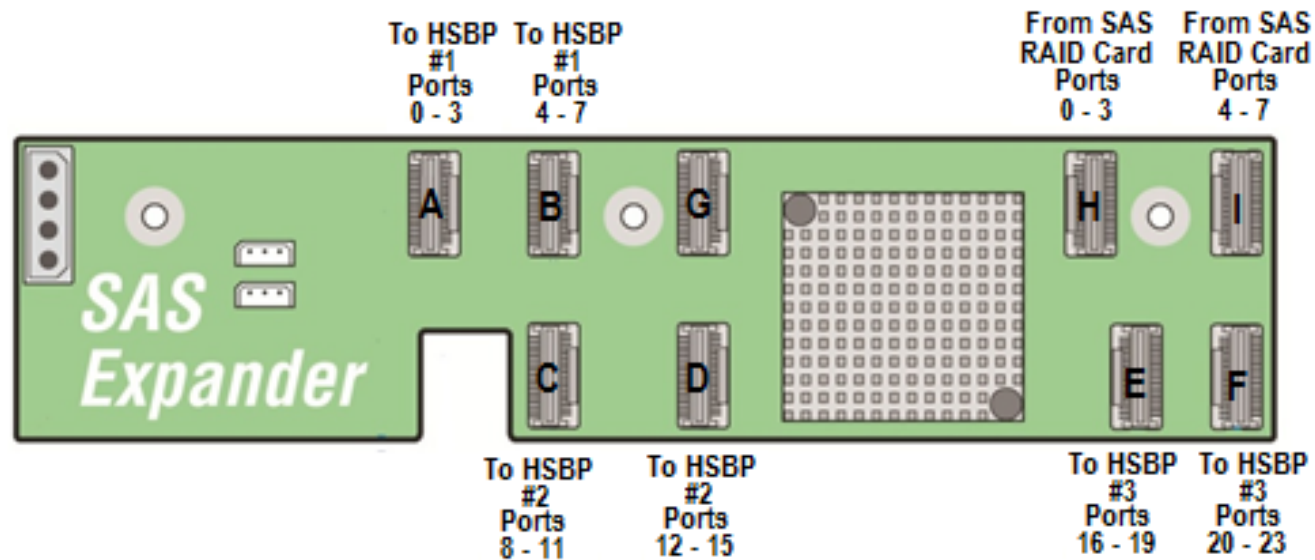





Figure 10. – 6 Gb Internal 36-Port Intel® RAID Expander Card RES2CV360 - Connector Identification Block Diagram

4.3 Intel SAS / SATA Data Cable Kits

Each cable accessory kit referenced in this section will identify the connector type at each end of the cable using the following identifiers: **HR**, **HD**, and **MS**. The following table identifies the three cable connector types and their identifiers.

	HR = Right Angle SFF-8643 Mini SAS HD Connector
	HD = Straight SFF-8643 Mini SAS HD Connector
	MS = Straight SFF-8087 Mini SAS Connector (compatible with 6Gb/sec SAS controllers and expanders)

Cable Kit Product Code Decoder

Example – iPC **AXXCBL950HDMS**

AXXCBL – Identifies an accessory cable kit

950 – identifies the length of the cable

HD – identifies that one cable connector supports an SFF-8643 type connector

MS – identifies that one cable connector supports an SFF-8087 type connector

Table 11. Storage Data Cable Kit Description and Order Information







Image	Order Information	Description
	iPC – AXXCBL950HDHD MM – 936122 UPC – 00735858286596 EAN – 5032037066495 MOQ – 1	950 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643 Used in multiple systems as spare and/or accessory (1304, 2308, 2312)
	iPC – AXXCBL875HDHD MM – 936123 UPC – 00735858284769 EAN – 5032037065054 MOQ – 1	875 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643 Used in multiple systems as spare and/or accessory (1304, 1208 2208, 2312)
	iPC – AXXCBL800HDHD MM – 937312 UPC – 00735858286015 EAN – 5032037066006 MOQ – 1	800 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643 Used in multiple systems as spare and/or accessory (1203, 1208, 2308, 2312)
	iPC – AXXCBL730HDHD MM – 936178 UPC – 00735858284745 EAN – 5032037065030 MOQ – 1	730 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643 Used in multiple systems as spare and/or accessory (1208, 2208)
	iPC – AXXCBL650HDHD MM – 937129 UPC – 00735858284752 EAN – 5032037065047 MOQ – 1	650 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643 Used as accessory when installing 12G ROC module in 1208 for optimal cabling. (longer cable may be used)
	iPC – AXXCBL1UHRHD MM – 937311 UPC – 00735858287401 EAN – 5032037067140 MOQ – 1	Combo cable kit, contains 2 cables. One of each of the following: 730mm (AXXCBL800HRHD), 800mm right angle SFF8643 to straight SFF8643, Spare cables used in 1U WT systems to connect to onboard SATA ports.






Image	Order Information	Description
	iPC – AXXCBL950HDMS MM – 937131 UPC – 00735858286633 EAN – 5032037066532 MOQ – 1	950 mm long, cable kit (2 cables included) straight SFF8643to straight SFF8087 Required in WT 2U systems with 6G SAS ROC module or 6G SAS RAID cards. (1304 with HBA, 2308 and 2312 HBA/module)
	iPC – AXXCBL875HDMS MM – 937130 UPC – 00735858286626 EAN – 5032037066525 MOQ – 1	875 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8087 Required in WT 2U systems with 6G SAS ROC module or 6G SAS RAID cards. (1304 and 1208 with HBA, 2216,2224,2312 with HBA/module)
	iPC – AXXCBL800HDMS MM – 937309 UPC – 00735858286084 EAN – 5032037066075 MOQ – 1	800 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8087 Required in WT 2U systems with 6G SAS ROC module or 6G SAS RAID cards. (1304 and 1208 with module, 2308 and 2312 HBA/module)
	iPC – AXXCBL730HDMS MM – 927238 UPC – 00735858266970 EAN – 5032037053648 MOQ – 5	730 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8087 Required in WT 2U systems with 6G SAS ROC module or 6G SAS HBA cards. (1208 with HBA, 2208 with HBA/module)
	iPC – AXXCBL650HDMS MM – 927237 UPC – 00735858266963 EAN – 5032037053631 MOQ – 5	650 mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8087 Used as accessory when installing 6Gb ROC module in 1208 for optimal cabling. (longer cable may be used)

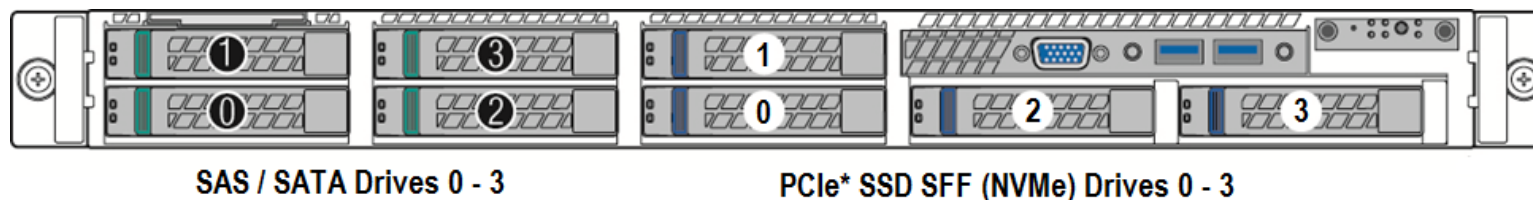
Image	Order Information	Description
	iPC – AXXCBLEXPHDMS MM – 937127 UPC – 00735858284776 EAN – 5032037065061 MOQ – 1	6 Gb Expander to 12 Gb Backplane cable kit 6Gb MS – to – 12Gb HD (3) 165 mm , (1) 185 mm , (1) 245 mm , (1) 300 mm straight SFF8643 to straight SFF8087
	iPC – AXXCBL650MSMS MM – 918376 UPC – 00735858224444 EAN – 5032037019910 MOQ – 5	650 mm long, cable kit (2 cables included) straight SFF8087 to straight SFF8087 Required in WT 2U systems with 6Gb SAS ROC module or 6Gb SAS HBA cards. (1208 with HBA, 2208 with HBA/module) and 6 Gb Expander card
	iPC – AXXCBL730MSMS MM – 921049 UPC – 00735858245340 EAN – 5032037039864 MOQ – 1	730 mm long, cable kit (2 cables included) straight SFF8087 to straight SFF8087 Required in WT 2U systems with 6Gb SAS ROC module or 6Gb SAS HBA cards. (1208 with HBA, 2208 with HBA/module) and 6 Gb Expander card
	iPC – AXXCBL880SATA MM – 922988 UPC – 00735858250290 EAN – 5032037044806 MOQ – 10	Spare SATA ODD Data cable for rack chassis family – 880mm long Included with ODD accessories
	iPC – A2UCBLSSD MM# – 937328 UPC – 00735858287005 EAN – 5032037066747 MOQ – 1	2U Cable kit accessory This kit includes cables necessary to provide simultaneous support for up to two internal air duct mounted SATA SSDs + rear drive bay (iPC – A2UREARHSDK) Kit includes: (1) Power Cable – Connectors to support rear drive bay and 2 internal mount SSDs (No CD/DVD Drive support) (1) fan out multiport SATA Data cable – Cable connectors include (1) HD mini-SAS SFF8643 + (4) 7-pin SATA + (1) SGPIO

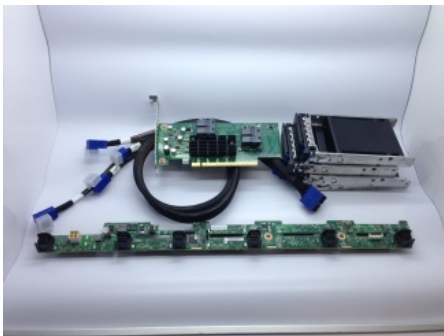
5. Intel 1U / 2U System Configuration Options

The following sections identify available accessory kits supported within the Intel® S2600WT product family.

5.1 1U 8x2.5" Combo PCIe* SFF (NVMe) SSD / SAS Backplane – Intel® Accessory Kit A1U44X25NVMEDK

- The 8x2.5" combo backplane kit is capable of supporting a combination of both SAS devices and up to four PCIe* SFF (Small Form Factor) (NVMe) SSD drives
- All eight drive connectors are capable of supporting a SAS device, but only four include SFF8639 connectors that can support PCIe* SFF (NVMe) SSDs
- This kit is only supported in dual processor configurations



Intel Product Code	Order Information	Product Description	Product Type
iPC – A1U44X25NVMEDK 	MM# – 936251 UPC – 00735858288873 EAN – 5032037068154 MOQ – 1	1U 8x2.5" Combo PCIe* SFF (NVMe) SSD / SAS Backplane Kit Kit IncludesL (1) Combo Hot Swap Backplane PCBA (4) SAS / SATA Hot Swap Drive Carriers (Green Latch) (4) PCIe* SFF SSD (NVMe) Hot Swap Drive Carriers (Blue Latch) (2) Dual PCIe* Port Cables (1) PCIe x16 Add-in card (1) Installation Guide Required (Sold Separately): SAS / SATA Data cables - See section 5.1.1	<ul style="list-style-type: none"> • 1U Accessory Kit

See the Intel® Server System R1000WT Technical Product Specification for additional information

5.1.1 1U 8x2.5" – Intel® Accessory Kit A1U44X25NVMEDK Cable Guide

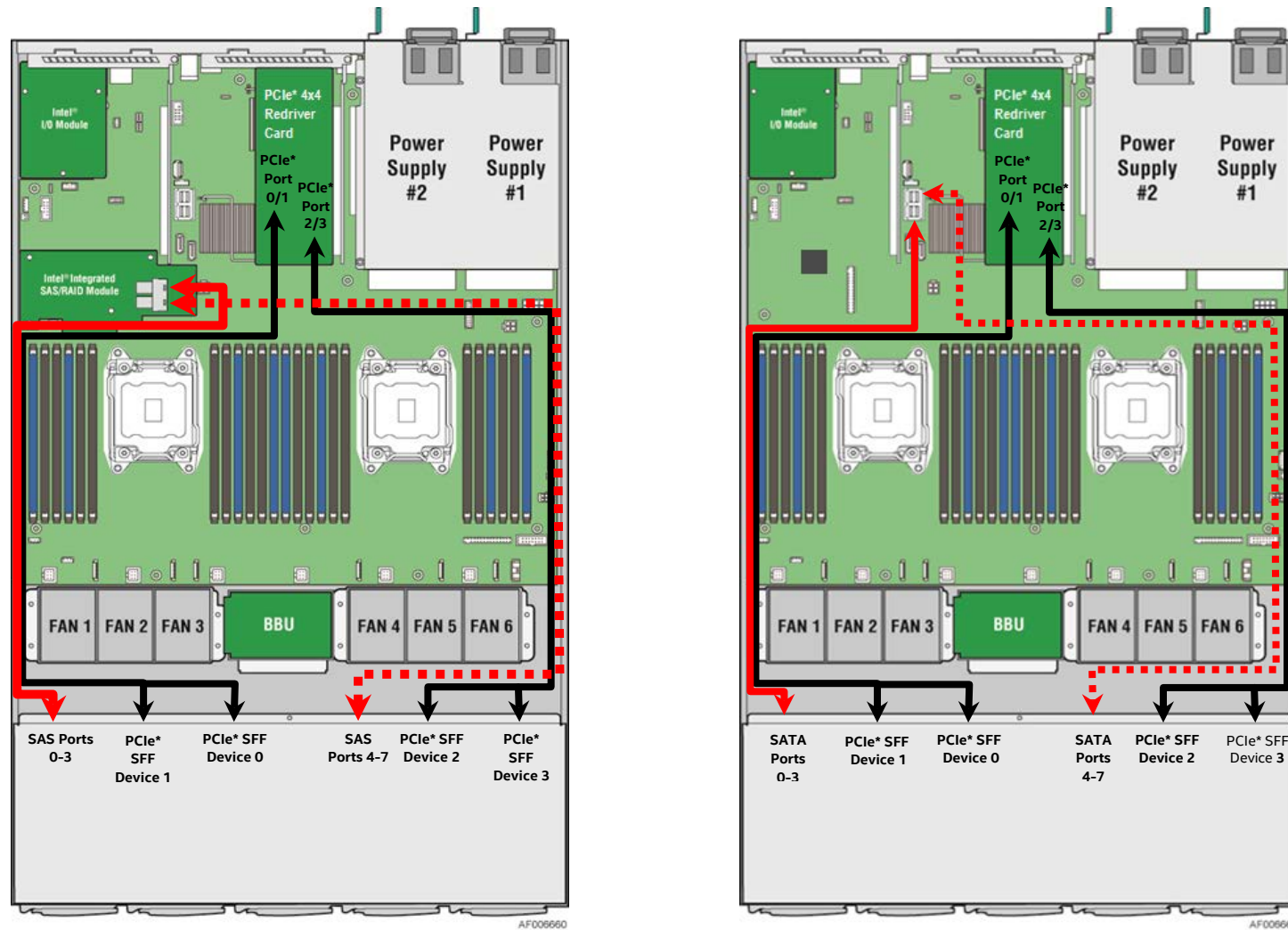


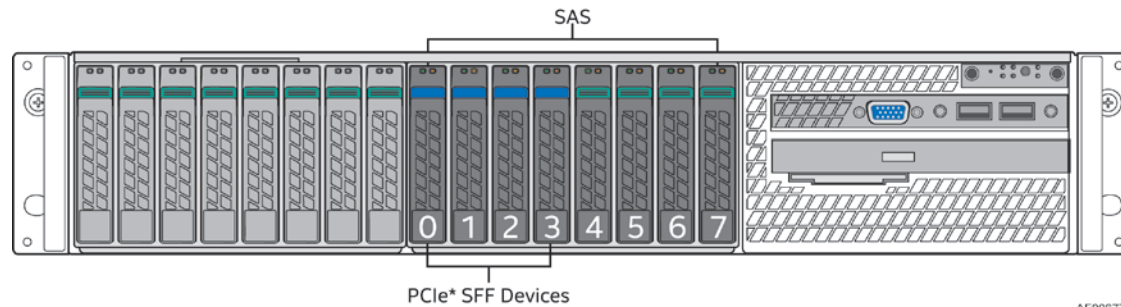
Figure 11. 1U Combo Backplane (iPC – A1U44X25NVMEDK) Cable Routing


Table 12. 1U 8x2.5" Combo Backplane SAS/SATA Cable Guide

System Configuration	Drive Support	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Mezzanine 6 Gb SAS RAID module to Backplane	Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane
R1208WTxxx R1208WTTGS R1208WT2GS with A1U44X25NVMEDK	A1U44X25NVMEDK Accessory kit Option 8 x 2.5" Combo SAS / SATA + PCIe* SSD SFF (NVMe) 12 Gb SAS capable PCIe* cables included in accessory kit. For SAS/SATA support see the following options	730 mm HR --- HD Connect cable to: SATA -> BP 0-3 and / or 800 mm HR --- HD Connect cable to: sSATA -> BP 4-7 Cables Included with system SKUs. Cable kit required for building block integration: AXXCBL1UHRHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	650 mm HD --- HD Connect cable to: SAS Mezz -> BP 0-3 and/or 800 mm HD --- HD Connect cable to: SAS Mezz -> BP 4-7 Cable Kits Required: AXXCBL650HDHD and / or AXXCBL800HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	650 mm HD --- MS Connect cable to: SAS Mezz -> BP 0-3 and/or 800 mm HD --- MS Connect cable to: SAS Mezz -> BP 4-7 Cable Kits Required: AXXCBL650HDMS and / or AXXCBL800HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	From Riser #1 730 mm HD --- HD Connect cable to: SAS PCIe -> BP 0-3 and/or 875 mm HD --- HD Connect cable to: SAS PCIe -> BP 4-7 Cable Kits Required: AXXCBL730HDHD and / or AXXCBL875HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	From Riser #1 730 mm HD --- MS Connect cable to: SAS PCIe -> BP 0-3 and/or 875 mm HD --- MS Connect cable to: SAS PCIe -> BP 4-7 Cable Kits Required: AXXCBL730HDMS and / or AXXCBL875HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support

5.2 2U 8x2.5" Combo PCIe* SFF (NVMe) SSD / SAS Backplane – Intel® Accessory Kit A2U44X25NVMEDK

- The 8x2.5" combo backplane kit is capable of supporting a combination of both SAS devices and up to four PCIe* SFF (Small Form Factor) (NVMe) SSD drives
- All eight drive connectors are capable of supporting a SAS device, but only four include SFF8639 connectors that can support PCIe* SFF (NVMe) SSDs
- The PCIe* x16 interface add-in card **MUST** be installed in a x16 riser card (included), and is only supported in the Riser #2 slot of the server board.
- This kit is only supported in dual processor configurations
- The 2U system is limited to supporting only one combo backplane kit in addition to one or two other backplane options
- The combo backplane module can only be supported in the first (left) drive bay when no other backplane module is installed
- Due to thermal and power limits associated with 16 x 2.5" and 24 x 2.5" front drive configurations, the combo backplane module can only be supported in the second (middle) drive bay



Intel Product Code	Order Information	Product Description	Product Type
iPC – A2U44X25NVMEDK 	MM# – 936253 UPC – 00735858288880 EAN – 5032037068161 MOQ – 1	<p>2U 8x2.5" Combo PCIe* SFF (NVMe) SSD / SAS Backplane Kit</p> <p>Kit Includes:</p> <ul style="list-style-type: none"> (1) 8x2.5" Drive Bay Assembly with backplane (4) SAS / SATA Hot Swap Drive Carriers (Green Latch) (4) PCIe* SFF SSD (NVMe) Hot Swap Drive Carriers (Blue Latch) (2) Dual PCIe* Port Cables (1) PCIe x16 Add-in card (1) 2-slot PCIe Riser card PCBA and mounting screws (1) I2C jumper cable (used in dual backplane configurations) (1) Installation Guide <p>Required (Sold Separately):</p> <p>SAS / SATA Data cables – See sections 5.2.1& 5.2.2</p>	<ul style="list-style-type: none"> • 2U Accessory Kit

See the Intel® Server System R2000WT Technical Product Specification for additional information.

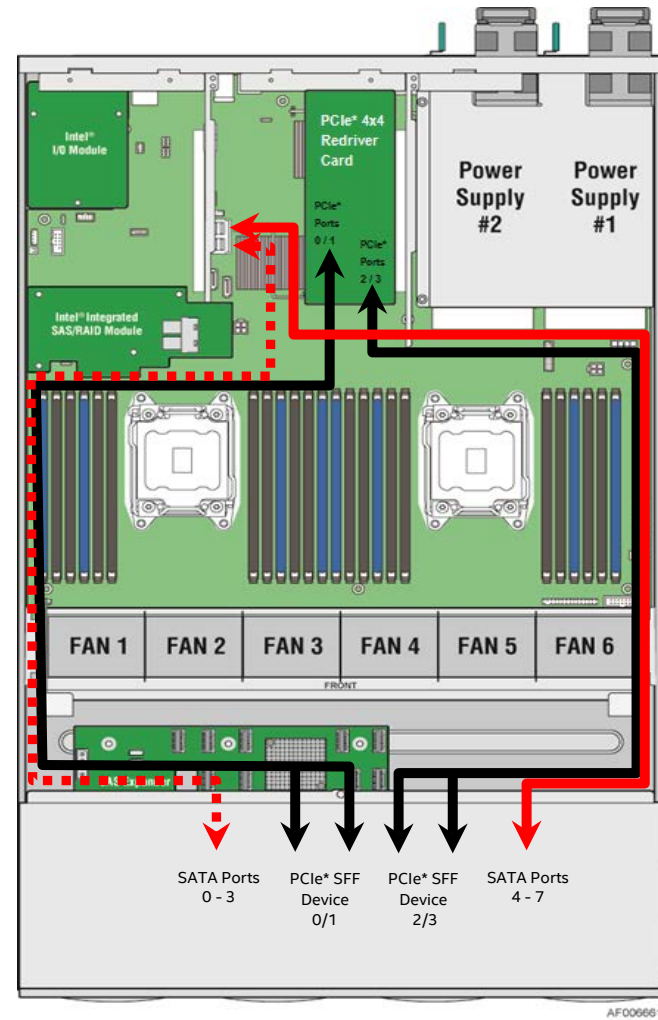
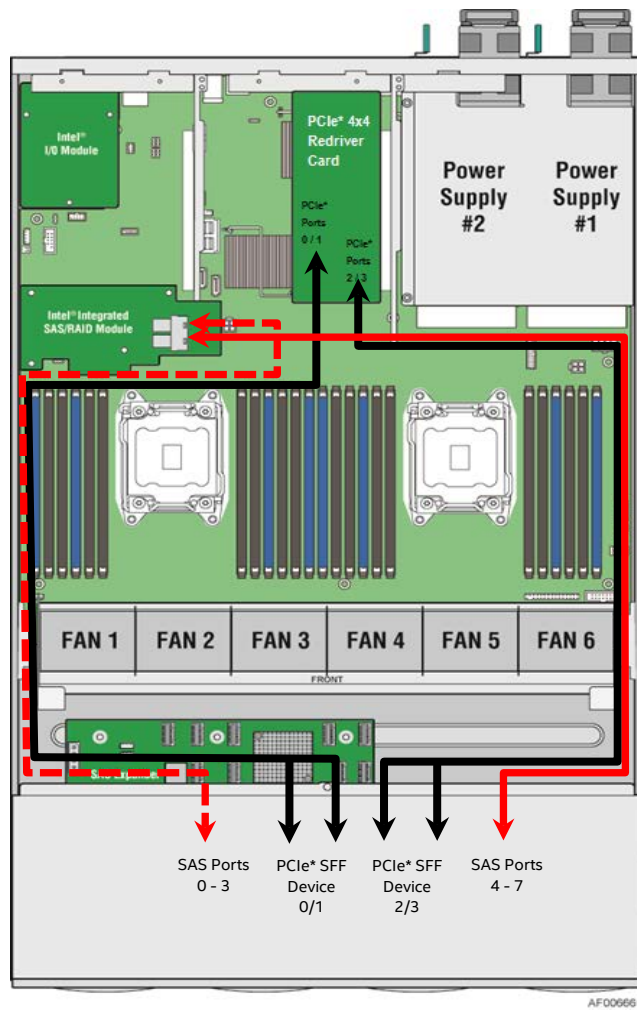


Figure 12. 2U Combo Backplane (iPC – A2U44X25NVMEDK) Cable Routing

5.2.1 2U 8x2.5" – Intel® Accessory Kit A2U44X25NVMEDK SAS/SATA Cable Guide

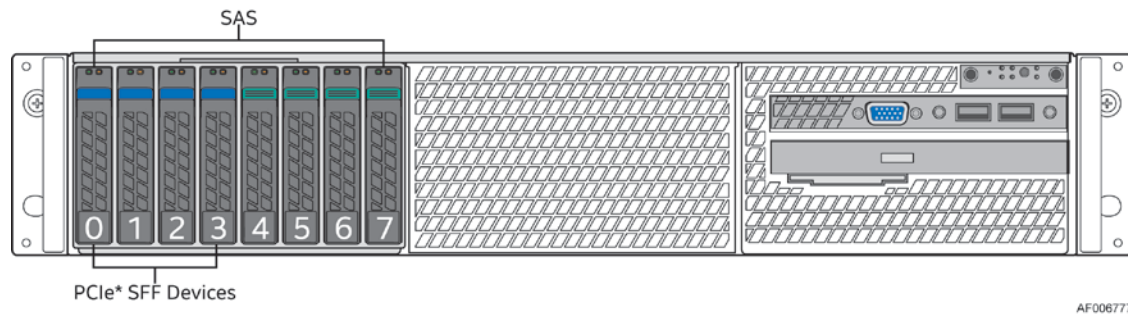


Figure 13. Combo Backplane Module Placement – 8 x 2.5" front drive configurations

System Configuration	Drive Bay #1	Cables for On-board Multi-port SATA Ports to Backplane	Cables for Mezzanine 12 Gb SAS ROC Module to Backplane	Cables for Mezzanine 6 Gb SAS RAID module to Backplane	Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane	Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane
R2208WT... Drive Bay #1 populated	8 x 2.5" Combo SAS / SATA + PCIe* SSD SFF (NVMe) iPC A2U44X25NVMEDK PCIe* cables included in accessory kit. For SAS/SATA support see the following options	730 mm HD --- HD Connect cable to: SATA -> BP 0-3 Included w/system SKUs and / or 730 mm HR --- HD Connect cable to: sSATA -> BP 4-7 Included w/system SKUs Cable kit required for building block integration: (2) AXXCBL730HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support	730 mm HD --- HD Connect cable to: SAS Mezz -> BP 0-3 Included w/system SKUs and/or 730 mm HD --- HD Connect cable to: SAS Mezz -> BP 4-7 Included w/system SKUs Cable kit required for building block integration: (2) AXXCBL730HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support	730 mm HD --- MS Connect cable to: SAS Mezz -> BP 0-3 and/or 730 mm HD --- MS Connect cable to: SAS Mezz -> BP 4-7 Cable Kits Required: (1 or 2) AXXCBL730HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support	From Riser #1 730 mm HD --- HD Connect cable to: SAS PCIe -> BP 0-3 and/or 730 mm HD --- HD Connect cable to: SAS PCIe -> BP 4-7 Cable Kits Required: (1 or 2) AXXCBL730HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support	From Riser #1 730 mm HD --- MS Connect cable to: SAS PCIe -> BP 0-3 and/or 730 mm HD --- MS Connect cable to: SAS PCIe -> BP 4-7 Cable Kits Required: (1 or 2) AXXCBL730HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support

5.2.2 2U 16x2.5" / 24x2.5" — Intel® Accessory Kit A2U44X25NVMEDK SAS / SATA Cable Guide

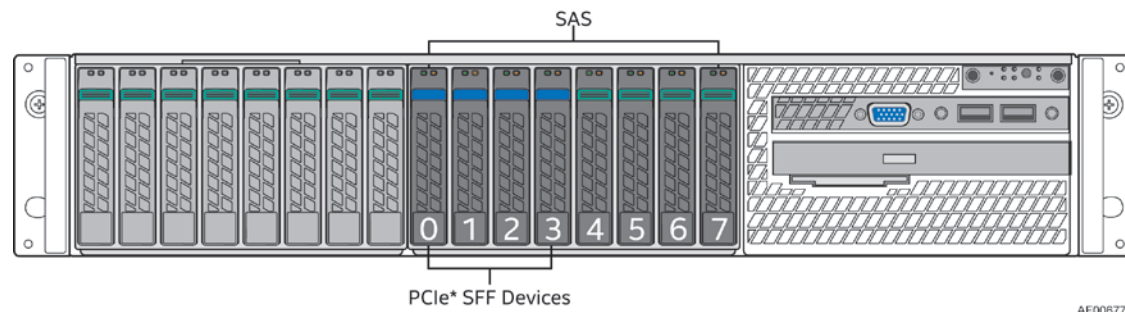
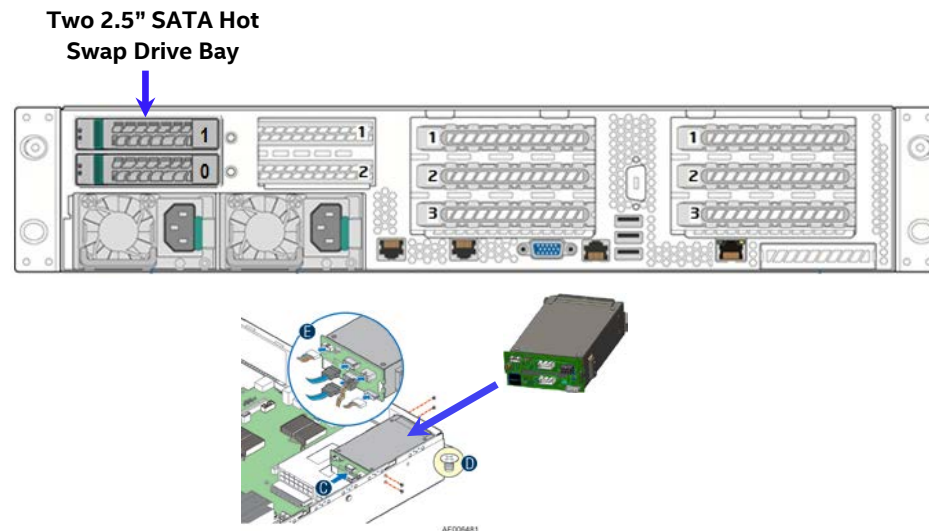



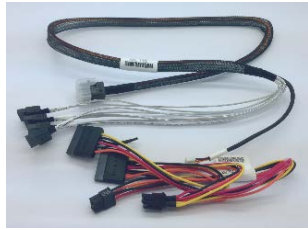
Figure 14. Combo Backplane Module Placement - 16 x 2.5" and 24 x 2.5" front drive configurations

System Configuration	Cables for Drive Bay #1	Drive Bay #2 Backplane Type	Cables for Mezzanine 12 Gb SAS ROC Module to Drive Bay #2	Cables for Mezzanine 6 Gb SAS RAID module to Drive Bay #2	Cables for 12 Gb SAS RAID PCIe* add-in card to Drive Bay #2	Cables for 6 Gb SAS RAID PCIe* add-in card to Drive Bay #2
R2216WT... R2224WT...	See section 4.7.1	8 x 2.5" Combo SAS / SATA + PCIe* SSD SFF (NVMe) iPC A2U44X25NVMEDK PCIe* cables included in accessory kit. For SAS/SATA support see the following options	730mm HD --- HD Connect cable to: SAS Mezz -> BP 0-3 and/or 800mm HD --- HD Connect cable to: SAS Mezz -> BP 4-7 One or both cable kits for building block integration: (1) AXXCBL730HDHD (1) AXXCBL800HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	730mm HD --- MS Connect cable to: SAS Mezz -> BP 0-3 and/or 800mm HD --- MS Connect cable to: SAS Mezz -> BP 4-7 One or both cable kits for building block integration: (1) AXXCBL730HDMS (1) AXXCBL800HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support	From Riser #1 730 mm HD --- HD Connect cable to: SAS PCIe -> BP 0-3 and/or 800 mm HD --- HD Connect cable to: SAS PCIe -> BP 4-7 One or both cable kits for building block integration: (1) AXXCBL730HDHD (1) AXXCBL800HDHD Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support	From Riser #1 730 mm HD --- MS Connect cable to: SAS PCIe -> BP 0-3 and/or 800 mm HD --- MS Connect cable to: SAS PCIe -> BP 4-7 One or both cable kits for building block integration: (1) AXXCBL730HDMS (1) AXXCBL800HDMS Use PCIe* cables included with Combo backplane kit for PCIe* SSD SFF / NVMe drive support

5.3 2U Rear Mount Hot Swap Drive Bay Accessory Kit – iPC A2UREARHSDK

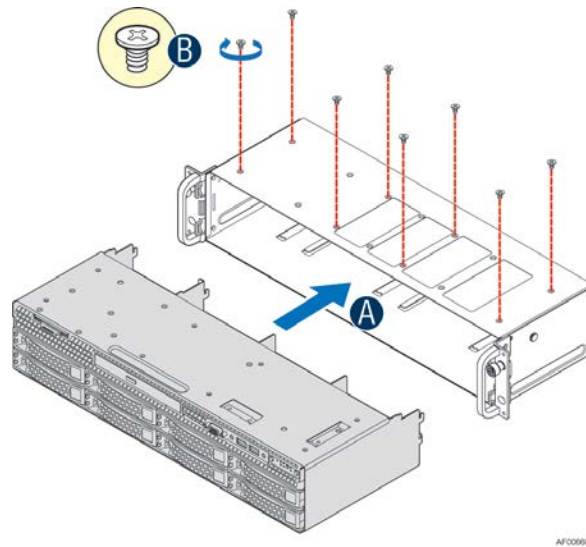
The 2U product family provides the option to support two 2.5" 6 Gb/sec hot swap SSDs installed to a modular drive bay mounted in the back of the system




Intel Product Code	Order Information	Product Description	Product Type
iPC – A2UREARHSDK 	MM – 934976 UPC – 735858283298 EAN – 5032037064354 MOQ – 1	2U Rear Mount Hot Swap Drive Bay Accessory Kit Kit Includes: (1) Drive Bay Assembly and mounting hardware (2) 2.5" Hot Swap Drive Carriers (2) SATA Data Cables (1) Power Cable (1) I2C Cable (1) SGPIO cable	<ul style="list-style-type: none"> 2U Accessory Kit System and Building Block
iPC – A2UCBLSSD 	MM# – 937328 UPC – 735858287005 EAN – 5032037066747 MOQ - 1	2U Fixed Mount SSD + Rear Drive Bay Cable Kit This kit includes cables to provide simultaneous support for up to two internal fixed mount SATA SSDs + rear drive bay Kit includes: (1) Power Cable – Connectors to support rear drive bay and 2 internal mount SSDs (No CD/DVD Drive support) (1) Fan out multiport SATA Data cable – Cable connectors include (1) HD mini-SAS SFF8643 + (4) 7-pin SATA + (1) SGPIO	<ul style="list-style-type: none"> 2U Cable kit accessory

5.4 2U 8x3.5" Front Mount Hot Swap Backplane Assembly - iPC A2U8X35S3HSDK

8x3.5" SAS/SATA Front Mount Hot-Swap Drive Bay Module option for 2U Building Block Chassis iPC – R2000WTxxx.



Intel Product Code	Order Information	Product Description	Product Type
iPC – A2U8X35S3HSDK 	MM# – 936191 UPC – 00735858288781 EAN – 5032037068062 MOQ – 5	2U 8x3.5" Front Mount Hot Swap Backplane Assembly Kit Includes: (1) Drive Bay Assembly Module (1) 8x3.5" hot swap backplane (8) 3.5" drive carriers + drive blanks (1) 175mm I2C Cable (1) 500mm ODD/SSD Power Cable (1) Chassis mounting clip (1 set) mounting hardware Required (Sold Separately): SAS / SATA Data Cables. See section 4.2.3	<ul style="list-style-type: none"> 2U Building Block Accessory Kit

See the *Intel® Server System R2000WT product family System Integration and Service Guide* for complete kit installation instructions.

5.5 2U 8x2.5" Drive Bay Module Options

2U system configurations that include support for 2.5" front mount storage devices can support up to three 8x2.5" drive bay modules. Intel makes available different types of 8x2.5" drive bay modules and can support from 1 to 3 of the same module or a mix of different modules. Only the PCIe* SSD (NVMe) compatible module (iPC – A2U44X25NVMEDK) has the limitation of only supporting one of these modules in combination with other backplane modules in the system.

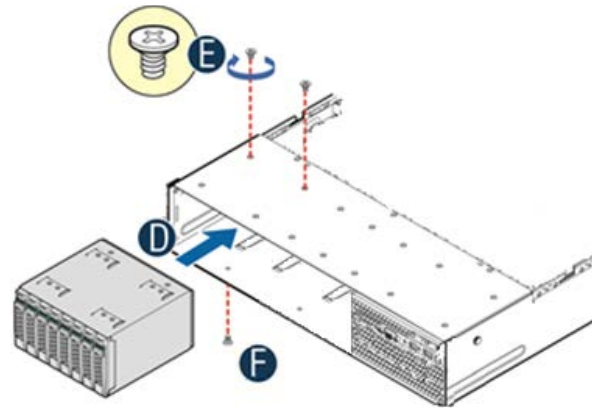


Figure 15. R2208WT and R2216WT based system with Front I/O Module Bay Assembly

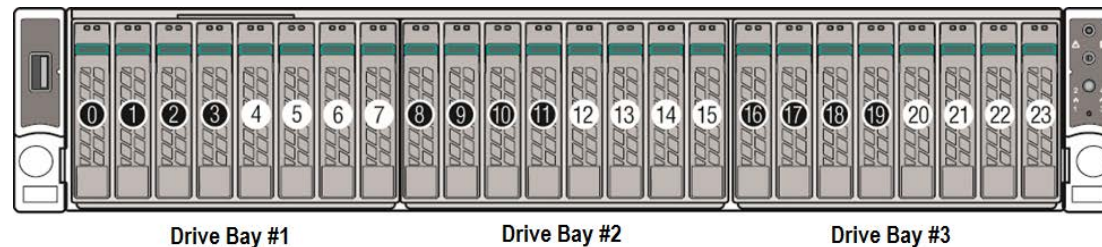
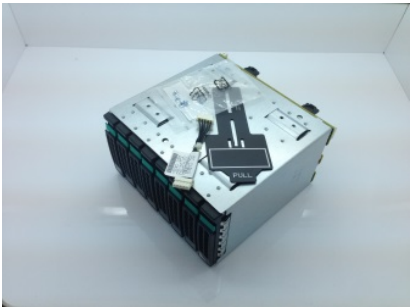



Figure 16. 2U 2.5" Drive Bay Numbering

Drive numbering in the illustrations above is for general reference only. Actual drive numbering will be dependant on SAS / SATA controller configuration and how they are cabled to the backplane. Each drive bay will include a single backplane. Each backplane will include a multi-port data connector for each set of four drives. Ex) for an 8 drive configuration, the backplane will include 2 four port data connectors. In the illustration above, drives showing a common Drive ID label color share a common data connector on the backside of the given backplane.


R2208WT (8x2.5" – 1 drive bay) and **R2216WT** (16x2.5" – 2 drive bays) system configurations utilize the same front I/O module bay assembly containing the System Control Panel and Front I/O Panel (as shown in Figure 9). When upgrading a R2208WT based system to an R2216WT based system, all that is needed is the removal of the Bay #2 face plate to insert the new drive bay, and adding the required data cables. No other chassis changes or additions are required.

Available SAS / SATA 8x25" accessory kits include the following.

Intel Product Code	Order Information	Product Description	Product Type
iPC – A2U8X25S3HSDK 	MM# – 935066 UPC – 00735858288767 EAN – 5032037068048 MOQ – 1	8x2.5" SAS/SATA Front Mount Hot Swap Drive Bay Module for all 2U 2.5" systems Kit Includes: (1) Drive Bay Assembly Module (1) 8x2.5" hot swap backplane (8) 2.5" drive carriers + drive blanks (1) 75mm I2C Backplane-to-Backplane jumper cable (1 set) mounting hardware Required (Sold Separately): SAS / SATA Data Cables. See section 4.2.5	<ul style="list-style-type: none"> • 2U 2.5" Drive Upgrade Kit • 2U Building Block Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC – A2U8X25S3DPDK 	MM# – 935067 UPC – 00735858288774 EAN – 5032037068055 MOQ – 1	8x2.5" Dual Port SAS Front Mount Hot Swap Drive Bay Module for all 2U 2.5" systems Kit Includes: (1) Drive Bay Assembly Module (1) 8x2.5" hot swap backplane (8) 2.5" drive carriers + drive blanks (1) 75mm I2C Backplane-to-Backplane jumper cable (1 set) mounting hardware Required (Sold Separately): SAS / SATA Data Cables. See section 4.2.5	<ul style="list-style-type: none"> • 2U 2.5" Drive Upgrade Kit • 2U Building Block Accessory Kit

For a 2U building block configuration consisting of 24x2.5" drives (3 drive bays – See Figure 10) or when upgrading a R2208WT or R2216WT system to a 24 drive R2224WT system, the 2U storage front panel option of Intel Accessory Kit A2UHANDLKIT must be installed.


Intel Product Code	Order Information	Product Description	Product Type
iPC – A2UHANDLKIT 	MM# – 936038 UPC – 00735858288866 EAN – 5032037068147 MOQ – 1	<p>1U / 2U Rack Handle Kit</p> <p>This kit includes 3 different rack handles, including:</p> <p>(1) Set of 2U storage rack handles with control panel and USB support (R2312WT & R2224WT)</p> <p>(1) Set of 2U non –storage rack handles (R2208WT & R2216WT)</p> <p>(1) Set of 1U rack handles (R1304WT & R1208WT)</p>	<ul style="list-style-type: none"> • 2U – 24 2.5" Drive Upgrade Kit • 1U / 2U Spares Kit

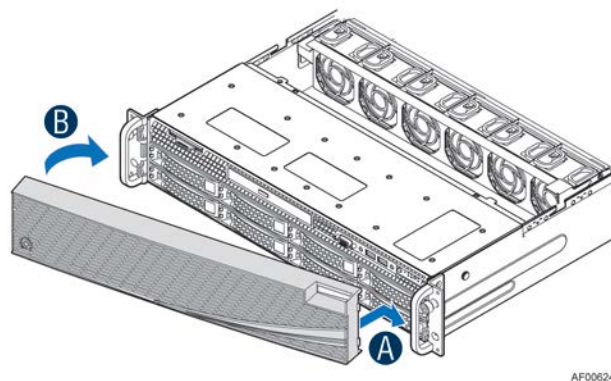
See the *Intel Server System R2000WT Product Family System Integration and Service Guide* for complete system integration and upgrade instructions.

5.6 Locking Front Bezel Accessory Kits

The optional front bezel is made of Black molded plastic and uses a snap-on design. When installed, its design allows for maximum airflow to maintain system cooling requirements. The front bezel includes a keyed locking mechanism which can be used to prevent unauthorized access to installed storage devices and front I/O ports.

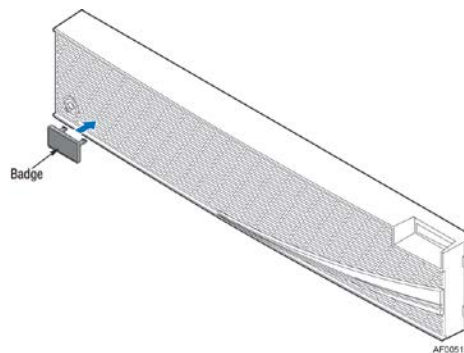
5.6.1 2U Front Bezel Accessory Kit – iPC A2UBEZEL

Intel Product Code	Order Information	Product Description	Product Type
iPC – A2UBEZEL 	MM# – 918086 UPC – 735858241137 EAN – 5032037035880 MOQ – 1	2U Front Bezel Accessory Kit Kit Includes: (1) 2U locking bezel (1) Front Panel Window Insert (1 Set) Bezel branding inserts – two ID badges, one wave (1 Set) Keys	<ul style="list-style-type: none"> 2U Accessory Kit




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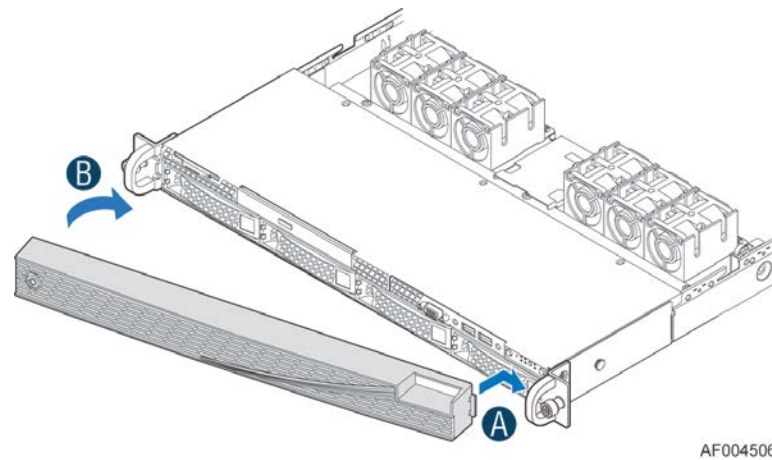
The face of the bezel assembly includes snap-in identification badge options and a wave feature option to allow for customization.



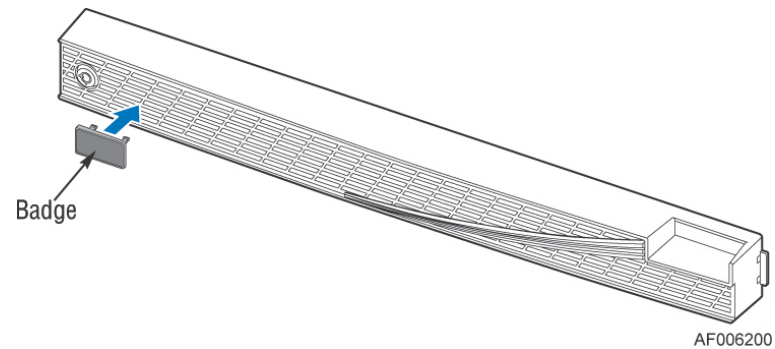
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5.6.2 1U Front Bezel Accessory Kit – iPC A1UBEZEL

Intel Product Code	Order Information	Product Description	Product Type
iPC – A1UBEZEL 	MM# – 917983 UPC – 735858241120 EAN – 5032037035873 MOQ – 1	1U Front Bezel Accessory Kit Kit Includes: (1) 1U locking bezel (1) Front Panel Window Insert (1 Set) Bezel branding inserts – two ID badges, one wave (1 Set) Keys	<ul style="list-style-type: none"> 1U Accessory Kit



The face of the bezel assembly includes snap-in identification badge options and a wave feature option to allow for customization.




5.7 1U / 2U PCIe* Riser Card Accessory/Spare FRU Options

The Intel® Server Board S2600WT provides three riser slots. Riser slots 1 and 2 are capable of supporting different riser card options to meet needs of specific system configurations. Riser card options for riser slots 1 and 2 are common. Riser slot 3 is only supported in 2U system configurations and can only support a riser capable of supporting low profile PCIe* add-in cards.

All PCIe* bus lanes to the riser slots are routed from the processors. Riser slot 1 has a total of 24 PCIe* 3.0 bus lanes routed from both processors; 16 lanes from processor #1 and 8 lanes from processor #2. Riser slot 2 has a total of 24 PCIe* 3.0 bus lanes routed from CPU 2. For riser slot 3, all PCIe* bus lanes are routed from CPU 2; 8 PCIe* bus lanes are PCIe* 3.0 compatible and 4 PCIe* lanes are PCIe* 2.0 compatible. See the product Technical Product Specification (TPS) for additional information.

Riser slots 1 and 2 are capable of supporting up to 100W maximum power each. Available power to each add-in card slot on a given riser card is defined by the PCIe* specification. The server board provides two Auxiliary 12V power connectors that when cabled (iPC **AXXGPGPUCABLE**), can provide additional power to high power PCIe* add-in cards.


5.7.1 1U Riser Card Options

Intel Product Code	Order Information	Product Description	Product Type
iPC – F1UL16RISER2 	MM# – 934884 UPC – 00735858288682 EAN – 5032037067966 MOQ – 1	1U 1-slot PCIe riser card option One PCIe* add-in card slot – PCIe* x16, x16 mechanical Kit includes: (1) Riser card PCBA	<ul style="list-style-type: none"> • 1U Building Block Accessory Kit • 1U Spare FRU


Each riser card assembly has support for a single full height, ½ length PCIe* add-in card. However, riser card #2 may be limited to ½ length, ½ height add-in cards if either of the two mini-SAS HD connectors on the server board are used.

Note: Add-in cards that exceed the PCI specification for ½ length PCI add-in cards (167.65mm or 6.6in) may interfere with other installed devices on the server board.

5.7.2 2U Riser Card Options

Intel Product Code	Order Information	Product Description	Product Type								
<div>iPC – A2UL8RISER2</div> <div></div>	<div>MM# – 934885</div> <div>UPC – 00735858288675</div> <div>EAN – 5032037067959</div> <div>MOQ – 1</div>	<div>2U 3-slot PCIe* riser card option</div> <div>Riser Slots #1 & #2 Riser Card Option</div> <table><tr><th>Slot #</th><th>Description</th></tr><tr><td>Slot-1 (Top)</td><td>PCIe* x8 elec, x16 mechanical</td></tr><tr><td>Slot-2 (Middle)</td><td>PCIe* x8 elec, x16 mechanical</td></tr><tr><td>Slot-3 (Bottom)</td><td>PCIe* x8 elec, x8 mechanical</td></tr></table> <div>Kit includes:</div> <div>(1) riser card PCBA</div>	Slot #	Description	Slot-1 (Top)	PCIe* x8 elec, x16 mechanical	Slot-2 (Middle)	PCIe* x8 elec, x16 mechanical	Slot-3 (Bottom)	PCIe* x8 elec, x8 mechanical	<div><ul style="list-style-type: none">2U Building Block Accessory Kit2U Spare FRU</div>
Slot #	Description										
Slot-1 (Top)	PCIe* x8 elec, x16 mechanical										
Slot-2 (Middle)	PCIe* x8 elec, x16 mechanical										
Slot-3 (Bottom)	PCIe* x8 elec, x8 mechanical										


Each 3-slot riser card assembly has support for up to two full height full length add-in cards (top and middle slots) and one full height ½ length add-in card (bottom slot).

Intel Product Code	Order Information	Product Description	Product Type						
<div>iPC – A2UL16RISER2</div> <div></div>	<div>MM# – 934886</div> <div>UPC – 00735858288668</div> <div>EAN – 5032037067942</div> <div>MOQ – 1</div>	<div>2U 2-slot PCIe* Riser card option</div> <div>Riser Slots #1 & #2 Riser Card Option</div> <table><tr><th>Slot #</th><th>Description</th></tr><tr><td>Slot-1 (Top)</td><td>PCIe* x16 elec, x16 mechanical</td></tr><tr><td>Slot-2 (Bottom)</td><td>PCIe* x8 elec, x8 mechanical</td></tr></table> <div>Kit includes:</div> <div>(1) Riser card PCBA</div> <div>(1) 12V-AUX Power Cable</div>	Slot #	Description	Slot-1 (Top)	PCIe* x16 elec, x16 mechanical	Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical	<div><ul style="list-style-type: none">2U Building Block Accessory Kit2U Spare FRU</div> <div>* Required Kit for Intel® Xeon Phi™ or high power PCIe* add-in card support</div>
Slot #	Description								
Slot-1 (Top)	PCIe* x16 elec, x16 mechanical								
Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical								

Each 2-slot riser card assembly has support for one full height full length add-in card (top slot) and one full height ½ length add-in card (bottom slot).

Note: The **A2UL16RISER2** accessory kit includes a 12V Auxiliary Power cable which can be used to provide additional 12V power for high power PCIe* add-in cards that require it.

Note: The x16 2-slot riser card is included in Intel Accessory Kit A2U44X25NVMEDK. Systems configured with the A2U44X25NVMEDK accessory kit cannot support dual Intel® Xeon Phi™ coprocessor cards or dual non-Intel GPGPU cards.

Intel Product Code	Order Information	Product Description	Product Type						
<div>iPC – A2UX8X4RISER</div> <div></div>	<div>MM# – 934883</div> <div>UPC – 00735858283311</div> <div>EAN – 5032037064378</div> <div>MOQ – 1</div>	<div>2U 2-slot riser card option</div> <div>Riser Slot #3 (only) Riser Card Option</div> <table><tr><th>Slot #</th><th>Description</th></tr><tr><td>Slot-1 (Top)</td><td>PCIe* x4 elec, x8 mechanical (PCIe* 2.0 support only)</td></tr><tr><td>Slot-2 (Bottom)</td><td>PCIe* x8 elec, x8 mechanical</td></tr></table> <div>Kit includes:</div> <div>(1) Riser card PCBA</div>	Slot #	Description	Slot-1 (Top)	PCIe* x4 elec, x8 mechanical (PCIe* 2.0 support only)	Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical	<div><ul style="list-style-type: none">• 2U Building Block Accessory Kit• 2U Spare FRU</div>
Slot #	Description								
Slot-1 (Top)	PCIe* x4 elec, x8 mechanical (PCIe* 2.0 support only)								
Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical								

Riser Slot #3 is provided to support up to two additional PCIe* add-in card slots for 2U server configurations. The available riser card option is designed to support low profile add-in cards only.

5.8 Intel® I/O Expansion Modules

The Intel® S2600WT product family includes support for a number of optional Intel® I/O modules that install onto proprietary connectors on the server board leaving all available PCIe* add-in cards slots available for other add-in card options. The onboard high density interface connector has x8 PCIe* 3.0 bus lanes routed to it from CPU 1.

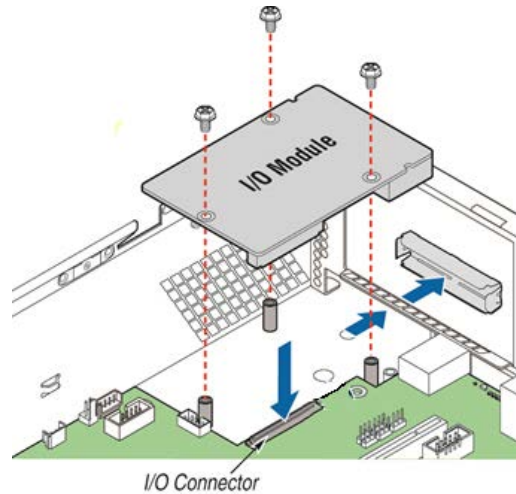








Figure 17. Intel® I/O Module Installation

Intel Product Code	Order Information	Product Description	Product Type
<p>iPC – AXX1P40FRTIOM</p> 	<p>MM# – 933742 UPC – 00735858282291 EAN – 5032037063623 MOQ – 1</p>	<p>Intel® I/O Modules AXX1P40FRTIOM & AXX2P40FRTIOM</p> <p>Intel® Single and Dual-Port 40G QSFP+ Ethernet I/O Modules based on XL710-AM2 10 Gigabit Ethernet Controller</p> <p>On the dual port module, the 4x10GbE SFP+ break out is supported on Port 0 only</p> <p>Available Optics Accessories: Intel® Ethernet QSFP+ SR4 Optics, E40GQSFP5R Intel® Ethernet 40G DCO Optics, E40GDCOQSFP</p> <p>Connector and cables: 40GBASE-CR4, QSFP+ Direct Attached Copper Cable Intel® Ethernet QSFP+ SR4 Optics also supported Intel® Ethernet 40G DCO Optics, E40GDCOQSFP</p> <p>Cabling type: 10GBASE-CR4: Copper Direct Attach passive cable (1–7m); 10GBASE-SR4: MMF (OM3) up to 100m Intel® Ethernet 40G DCO Optics up to 50m</p> <p>Kits Include: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (2 Port only model) (1 set) Mounting screws</p>	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
<p>iPC – AXX2P40FRTIOM</p> 	<p>MM# – 933743 UPC – 00735858282314 EAN – 5032037063647 MOQ – 1</p>	<p>Intel® I/O Module AXX10GBNIAIOM</p> <p>Dual SFP+ port 10GbE IO module based on Intel® 82599ES 10 Gigabit Ethernet Controller</p> <p>Kit Includes: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (1 set) Mounting screws</p>	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC – AXX10GBTWLIOM3 	MM – 941869 UPC – 00735858296656 EAN – 5032037072472 MOQ – 1	Intel® I/O Module AXX10GBTWLIOM3 Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540 Kit Includes: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (1 set) Mounting screws	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – AXX1FDRIBIOM 	MM – 918607 UPC – 00735858241106 EAN – 5032037035859 MOQ – 1	Intel® I/O Module AXX1FDRIBIOM Single port, FDR 56GT/S speed Intel® I/O Expansion Infiniband* module Kit Includes: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (1 set) Mounting screws	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – AXX2FDRIBIOM 	MM – 920627 UPC – 00735858245722 EAN – 5032037040235 MOQ – 1	Intel® I/O Module AXX2FDRIBIOM Dual port, FDR 56GT/S (per port capable) speed Infiniband* module Kit Includes: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (1 set) Mounting screws	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC – AXX4P1GBPWL1OM 	MM – 917911 UPC – 00735858241083 EAN – 5032037035835 MOQ – 1	Intel® I/O Module AXX4P1GBPWL1OM Quad port 1GbE IO Module based on Intel® Ethernet Controller I350 Kit Includes: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (1 set) Mounting screws	<ul style="list-style-type: none">• 1U / 2U Accessory Kit

5.9 Intel® SAS RAID Add-in Cards, Modules, and Accessories

Intel® RAID offers a broad portfolio of RAID solutions designed to address the storage-related challenges of the modern day datacenter as well as the small business. The Intel® S2600WT product family includes support for the latest generation of 12 Gb/s SAS Intel® RAID add-in cards, modules, expanders, and accessories. Previous generation 6Gb/s Intel RAID cards can also be supported. See the published Tested Hardware and OS List for a full list of validated Intel RAID cards.



Additional information for Intel RAID products can be found at the following Intel web sites:




http://www.intelraid.com/files/Intel_RMS3_Brief_Final.pdf

http://www.intelraid.com/files/Intel-1106-RAID-Brochure_New2014102.pdf




http://www.intelraid.com/files/RAID_Matrix_20142.pdf




5.9.1 Intel® Integrated RAID Module RMS3 Product Family – SAS 3.0 (12 Gb/s)



Intel Product Code	Order Information	Product Description	Product Type
iPC – RMS3CC080 	MM# – 932474 UPC – 00735858276832 EAN – 5032037060448 MOQ – 5	Intel® Integrated RAID Module RMS3CC080 Mezzanine Form Factor HW RAID Module 8 internal SAS / SATA ports Mini-SAS HD SFF8643 connectors LSI* SAS3108 ROC with 1GB DDR3 RAID Levels 0, 1, 5, 6, 10, 50, 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU5 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RMS3CC040 	MM# – 932473 UPC – 00735858276849 EAN – 5032037060455 MOQ – 5	Intel® Integrated RAID Module RMS3CC040 Mezzanine Form Factor HW RAID Module 4 internal SAS / SATA ports Mini-SAS HD SFF8643 connectors LSI* SAS3108 ROC with 1GB DDR3 RAID Levels 0, 1, 5, 6, 10, 50, 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU5 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC – RMS3HC080 	MM – 932469 UPC – 00735858276818 EAN – 5032037060424 MOQ – 5	Intel® Integrated RAID Module RMS3HC080 Mezzanine Form Factor Entry-RAID Module 8 internal SAS / SATA ports Mini-SAS HD SFF8643 connectors LSI* SAS3008 SAS IOC with Advanced Management Entry HW RAID levels – JBOD, RAID 0,1,10 & Hybrid 5,50 128MB server board memory utilized as cache memory for RAID 5/50 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RMS3JC080 	MM – 932472 UPC – 00735858276825 EAN – 5032037060431 MOQ – 5	Intel® Integrated RAID Module RMS3JC080 Mezzanine Form Factor Entry-RAID Module 8 internal SAS / SATA ports Mini-SAS HD SFF8643 connectors LSI* SAS3008 IOC with Basic Firmware Entry HW RAID levels – JBOD, RAID 0, 1, 1E, 10 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – AXRMFBU5 	MM# – 933907 UPC – 00735858276801 EAN – 5032037060417 MOQ – 5	Intel® RAID Maintenance Free Backup Unit AXRMFBU5 A super-capacitor module and flash memory card designed to help protect data in dynamic memory during a power failure or system crash event. The AXRMFBU5 kit is used with the 12 Gb/s Intel® Integrated RAID Modules Compatible with: <ul style="list-style-type: none"> Intel® Integrated RAID Module RMS3CC080 Intel® Integrated RAID Module RMS3CC040 	<ul style="list-style-type: none"> 1U / 2U Accessory Kit





5.9.2 Intel® RAID Controller Add-in Cards - SAS 3.0 (12Gb/s)



Intel Product Code	Order Information	Product Description	Product Type
iPC – RS3DC080 	MM# – 934643 UPC – 00735858265355 MOQ – 5	Intel® RAID Controller RS3DC080 Low Profile, half length, (MD2 Compliant) PCIe* add-in card 8 internal SAS / SATA ports LSI* SAS3108 ROC RAID Levels – 0, 1, 5, 6, 10, 50, and 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU4 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RS3DC040 	MM# – 934644 UPC – 00735858265362 MOQ – 5	Intel® RAID Controller RS3DC040 Low Profile, half length, (MD2 Compliant) PCIe* add-in card 4 internal SAS / SATA ports LSI* SAS3108 ROC RAID Levels – 0, 1, 5, 6, 10, 50, and 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU4 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RS3SC008 	MM# – 928223 UPC – 00735858266956 EAN – 5032037068567 MOQ – 5	Intel® RAID Controller RS3SC008 Low Profile, half length, (MD2 Compliant) PCIe* add-in card 8 external SAS / SATA ports LSI* SAS3108 ROC RAID Levels – 0, 1, 5, 6, 10, 50, and 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU4 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

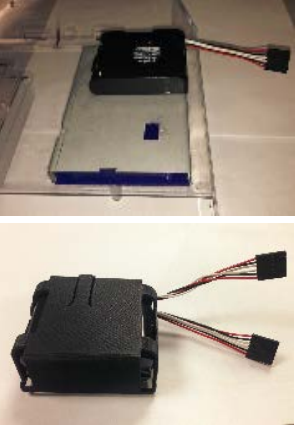
Intel Product Code	Order Information	Product Description	Product Type
iPC – RS3MC044 	MM# – 928244 UPC – 00735858266987 EAN – 5032037068574 MOQ – 5	Intel® RAID Controller RS3MC044 Low Profile, half length, (MD2 Compliant) PCIe* add-in card 4 internal SAS / SATA ports + 4 external SAS / SATA ports LSI* SAS3108 ROC RAID Levels – 0, 1, 5, 6, 10, 50, and 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit – iPC AXXRMFBU4 SAS Data cables not included . Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RS3GC008 	MM# – 928220 UPC – 00735858267175 EAN – 5032037053839 MOQ – 5	Intel® RAID Controller RS3GC008 Low Profile, half length, (MD2 Compliant) PCIe* add-in card Entry Level SAS Card 8 external SAS / SATA ports LSI* SAS3008 IOC RAID Levels – JBOD (SAS Connectivity) SAS Data cables not included. Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RS3UC080 	MM# – 928218 UPC – 00735858267649 EAN – 5032037053938 MOQ – 5	Intel® RAID Controller RS3UC080 Low Profile, half length, (MD2 Compliant) PCIe* add-in card Entry Level SAS RAID Card 8 internal SAS / SATA ports LSI* SAS3008 IOC RAID Levels – 0, 1, 1E, 10, and JBOD SAS Data cables not included. Must be purchased seperately	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
<p>iPC – RS3FC044</p> 	<p>MM# – 928219 UPC – 00735858267267 EAN – 5032037053921 MOQ – 5</p>	<p>Intel® RAID Controller RS3FC044 Low Profile, half length, (MD2 Compliant) PCIe* add-in card Entry Level SAS RAID Card 4 internal + 4 external SAS / SATA ports LSI* SAS3008 IOC RAID Levels – 0, 1, 1E, 10, and JBOD</p> <p>SAS Data cables not included. Must be purchased seperately</p>	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
<p>iPC – AXXRMFBU4</p> 	<p>MM# – 937318 UPC – 00735858273787 EAN – 5032037058544 MOQ – 5</p>	<p>Intel® RAID Maintenance Free Backup Unit AXXRMFBU4 A super-capacitor module and flash memory card designed to help protect data in dynamic memory during a power failure or system crash event.</p> <p>The AXXRMFBU4 kit is used with the 12 Gb/s Intel® RAID Controller PCIe* Add-in Cards</p> <p>Compatible with:</p> <ul style="list-style-type: none"> Intel® RAID Controller RS3DC080 Intel® RAID Controller RS3DC040 Intel® RAID Controller RS3SC008 Intel® RAID Controller RS3MC044 	<ul style="list-style-type: none"> 1U / 2U Accessory Kit




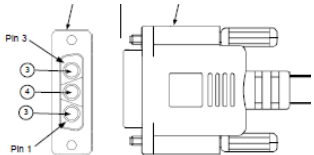

5.9.3 Intel® RAID Accessory Options

Intel Product Code	Order Information	Product Description	Product Type
iPC – AXXPFKSSD2 	MM# – 919499 UPC – 735858221467 EAN - 5032037051699 MOQ – 5	Intel® RAID SSD Cache with Fast Path I/O Upgrade Key to enable SSD Cache with Fastpath I/O for Intel®'s RAID RS25 and RS3 (based on LSI 3108) families of ROC products.	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – AXXPFKDE2 	MM# – 915317 UPC – 735858221474 EAN - 5032037051705 MOQ – 5	Intel® RAID Drive Encryption Management Upgrade Key to enable Drive Encryption Management for Intel®'s RAID RS25 and RS3 (based on LSI 3108) families of ROC products.	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – AXXPFKSNH2 	MM# – 915318 UPC – 735858221481 EAN - 5032037051712 MOQ – 5	Intel® RAID Rapid RecoverySnapshot Upgrade Key to enable Rapid Recovery Snapshot for Intel®'s RAID RS25 and RS3 (based on LSI 3108) families of ROC products.	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC – RKSATA4R5 	MM# – 916346 UPC – 00735858238861 EAN – 5032037033640 MOQ - 5	ESRT2 SATA SW RAID activation key Used to enable onboard SATA controllers to support embedded ESRT2 SW RAID 5	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
			<ul style="list-style-type: none">

Intel Product Code	Order Information	Product Description	Product Type
<p>iPC – AXXRMFBU5</p> 	<p>MM# – 933907 UPC – 00735858276801 EAN – 5032037060417 MOQ – 5</p>	<p>Intel® RAID Maintenance Free Backup Unit AXXRMFBU5</p> <p>A super-capacitor module and flash memory card designed to help protect data in dynamic memory during a power failure or system crash event.</p> <p>The AXXRMFBU5 kit is used with the 12 Gb/s Intel® Integrated RAID Modules</p> <p>Compatible with:</p> <ul style="list-style-type: none"> • Intel® Integrated RAID Module RMS3CC080 • Intel® Integrated RAID Module RMS3CC040 	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit
<p>iPC – AXXRMFBU4</p> 	<p>MM# – 937318 UPC – 00735858273787 EAN – 5032037058544 MOQ – 5</p>	<p>Intel® RAID Maintenance Free Backup Unit AXXRMFBU4</p> <p>A super-capacitor module and flash memory card designed to help protect data in dynamic memory during a power failure or system crash event.</p> <p>The AXXRMFBU4 kit is used with the 12 Gb/s Intel® RAID Controller PCIe* Add-in Cards</p> <p>Compatible with:</p> <ul style="list-style-type: none"> • Intel® RAID Controller RS3DC080 • Intel® RAID Controller RS3DC040 • Intel® RAID Controller RS3SC008 <p>Intel® RAID Controller RS3MC044</p>	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit



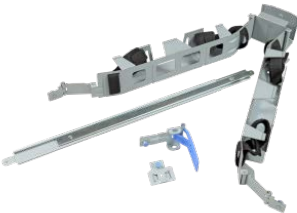
Intel Product Code	Order Information	Product Description	Product Type
<p>iPC - AWTAXBBUBKT</p> 	<p>MM# – 937082 UPC – 00735858289344 EAN – 5032037068321 MOQ – 1</p>	<p>1U / 2U RMFBU Mounting Option Kit</p> <p>Kit includes:</p> <p>(1) – 2U RMFBU Mounting plate. The mounting plate installs in one of two possible mounting locations in front of either riser slot on the 2U air duct and can support up to two AXXRMFBU5 or AXXRSBBU9 units. Full length PCIe cards cannot be supported when this mounting plate is installed behind the given riser slot.</p> <p>(1) – RMFBU plastic housing bracket to support two stacked AXXRMFBU5 units in a 1U chassis</p>	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit


5.10 Intel Power Supply Modules and Power Cords

Intel Product Code	Order Information	Product Description	Product Type
iPC – AXX1100PCRPS 	MM# – 936183 UPC – 00735858287920 EAN – 5032037067478 MOQ - 1	1100W AC CRPS 80+ Platinum efficiency power supply module Power cord sold separately	<ul style="list-style-type: none"> • 2U Building Block Option • 2U Accessory Kit • 2U Spare FRU
iPC – FXX750PCRPS 	MM# – 915604 UPC – 00735858234979 EAN – 5032037030601 MOQ - 1	750W AC CRPS 80+ Platinum efficiency power supply module Power cord sold separately	<ul style="list-style-type: none"> • 1U / 2U Building Block Option • 1U / 2U Accessory Kit • 1U / 2U Spare FRU
iPC – AXX750DCCRPS 	<p>*Supported in Late Q2 2015</p>	750W -48v DC (Direct current) CRPS 80+ Gold efficiency power supply module Kit Includes: (1) power supply (1) O-ring terminal adapter. Power cable sold separately	<ul style="list-style-type: none"> • 1U / 2U Building Block Option • 1U / 2U Accessory Kit • 1U / 2U Spare FRU
iPC – AXXDCCRPSCBL 	MM – 922062 UPC – 00735858247993 EAN – 5032037042871 MOQ – 1	4000mm (13ft) DC power cable. Connects directly to power supply instead of O-ring terminals adapter	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit • 1U / 2U Spare FRU
iPC – FPWRCABLENA 	MM# – 879287 UPC – 00735858181129 EAN – 5032037015738 MOQ – 1	1500mm (59in) North American Power Cord	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit • 1U / 2U Spare FRU

5.11 1U / 2U Rack Mount Kits

Caution: Exceeding the rail kit's specified maximum weight limit or misalignment of the server in the rack may result in failure of the rack rails, resulting in damage to the system or personal injury. Using two people or the use of a mechanical assist tool to install and align the server into the rack is highly recommended.

Intel Product Code	Order Information	Product Description	Product Type
iPC - AXXPRAIL 	MM# – 924417 UPC – 00735858219686 EAN – 5032037014823 MOQ – 1	1U / 2U Premium Rail Kit <ul style="list-style-type: none"> 1U and 2U compatible Adjustment within 609.6mm~762mm to fit difference depth rack 800mm maximum travel length Full extension from rack 54 lbs (24 kgs) max support weight Tool-less installation Drop in system install For Cable Management arm support – order iPC AXX1U2UCMA 	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC - AXXELVRAIL 	MM# – 920970 UPC – 00735858244367 EAN – 5032037038980 MOQ - 1	1U / 2U Enhanced Value Rail Kit <ul style="list-style-type: none"> Works for all 438mm wide Intel® Rack Chassis 1U, 2U, 4U Adjustment within 609.6mm~765mm to fit difference depth rack 424.2mm maximum travel length 2/3 extension from rack 130 lbs (59 kgs) max support weight Tool-less chassis attach Tools required to attach to rails to rack <p>Note: No Cable Management Arm support.</p>	<ul style="list-style-type: none"> 1U / 2U Accessory Kit
iPC - AXX1U2UCMA 	MM# – 913117 UPC – 00735858224604 EAN – 5032037019972 MOQ – 1	1U / 2U Cable Management Arm (CMA) <ul style="list-style-type: none"> 1U / 2U compatible Support for Premium 1U/2U AXXPRAIL and 1U A1UFULLRAIL rail kit options only 	<ul style="list-style-type: none"> 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC - AXX2POSTBRCKT 	MM# – 918808 UPC – 00735858245319 EAN – 5032037039833 MOQ – 1	1U / 2U 2-Post fixed mount bracket kit <ul style="list-style-type: none"> • 1U and 2U compatible • Tools required to attach components to rack NOTE: Not compatible with 24x2.5" drive or 12x3.5" drive system configurations	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit
iPC – A1USHRTRAIL NEW – COMING Q2 2015		1U Premium quality rails with no CMA support <ul style="list-style-type: none"> • Travel distance 780mm • Full extension from rack • Kit includes: Rails, screws, installation manual 	<ul style="list-style-type: none"> • 1U Accessory Kit
iPC – A1UFULLRAIL NEW - COMING Q2 2015		1U Premium quality rails with CMA support. <ul style="list-style-type: none"> • Travel distance 780mm • Full extension from rack • Kit includes: Rails, screws, installation manual • For Cable Management arm support – order iPC AXX1U2UCMA 	<ul style="list-style-type: none"> • 1U Accessory Kit
iPC – AXXFULLRAIL NEW – COMING Q2 2015		2U+ Premium quality rails with CMA support. <ul style="list-style-type: none"> • Travel distance 780mm • Full extension from rack • Kit includes: Rails, screws, installation manual • For Cable Management arm – order iPC AXXCMA2 	<ul style="list-style-type: none"> • 2U Accessory Kit
iPC – AXXCMA2 NEW – COMING Q2 2015		Cable management arm <ul style="list-style-type: none"> • Compatible with AXXFULLRAIL only 	<ul style="list-style-type: none"> • 2U Accessory Kit

5.12 Intel® Xeon Phi™ Coprocessor Card and Non-Intel GPGPU Support

Intel® Xeon Phi™ Coprocessor cards and non-Intel GPGPU cards are supported in the following 2U system configurations only: **R2208WT, R2308WT, and R2216WT**. Because of mechanical and thermal limits, the **1U product family** and the **R2312WT...** and **R2224WT...** system configurations do NOT have support for Intel® Xeon Phi™ coprocessor cards or non-Intel GPGPU cards.

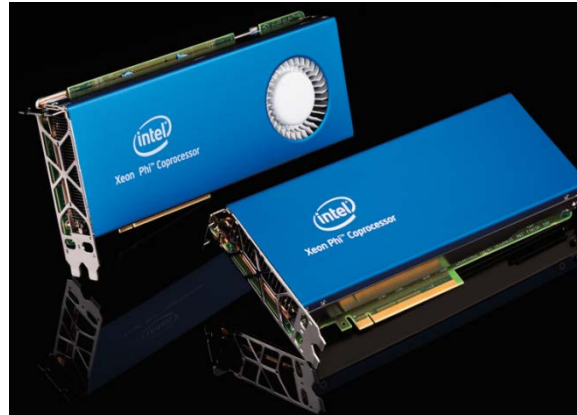
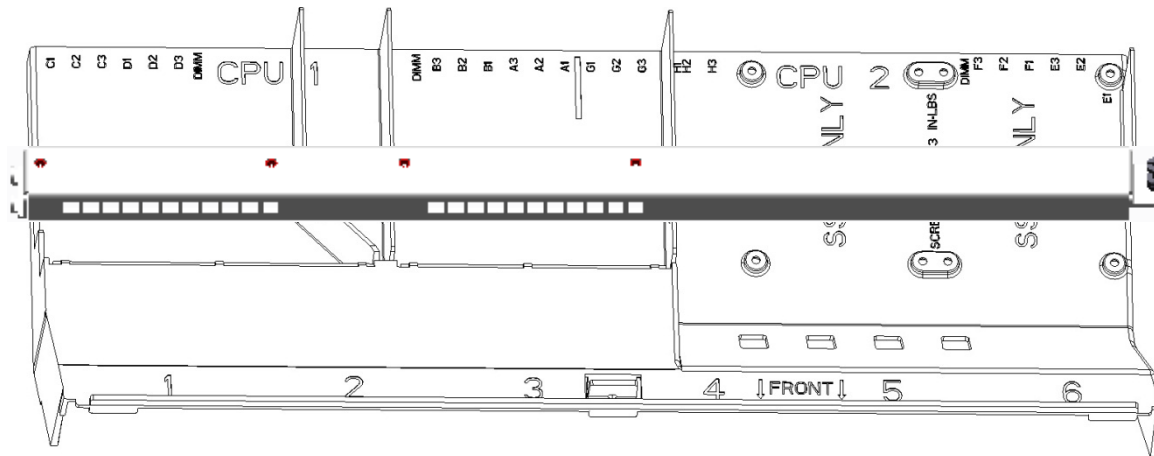


Figure 18. Intel® Xeon Phi™ Coprocessor Cards With Active and Passive Cooling

- Supported 2U systems configured with the standard (default) air duct, can only support high power add-in cards (>75W) with active (with fan) heat sinks.
- In supported 2U system, high power add-in cards (>75W) with passive (no fan) heat sinks can only be supported in systems configured with a high air flow air duct available in Intel Accessory Kit – iPC **AWTCOPRODUCT**
 - NOTE: Intel® Server System **R2208WTTYC1** is a special system SKU that includes the necessary components to support passive high power (>75W) add-in cards like the Intel® Xeon Phi™ coprocessor card or non-Intel GPGPU cards.





See the *Intel® Server System R2000WT product family Technical Product Specification* for more information.

Non-Intel GPGPU Support Disclaimer:


Intel incorporates necessary features and conducts appropriate thermal testing of its server systems to ensure the thermal requirements of Intel® Xeon Phi™ coprocessor cards can be supported when the documented support criteria are met.

Intel can make support recommendations for non-Intel GPGPU cards listed on its Tested Hardware and Support List, based on the same support criteria. However, Intel cannot guarantee its server systems can meet the thermal requirements of these non-Intel high power add-in cards. System integrators should verify non-Intel GPGPU add-in card air flow and thermal requirements from vendor specifications before integrating them into the system. It is the responsibility of the system integrator to conduct appropriate system testing on server systems configured with a non-Intel GPGPU card to ensure reliable operation.




For non-Intel GPGPU cards listed on Intel's tested hardware and OS list, Intel will provide best internal support efforts to duplicate and understand reported issues. However, Intel cannot guarantee an issue will be root caused nor that a fix can be made available to correct it.

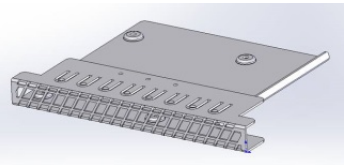

Intel Product Code	Order Information	Product Description	Product Type
iPC – AWTCOPRODUCT  	MM# – 934988 UPC – 00735858283328 EAN – 5032037064385 MOQ – 1	<p>2U High Air flow Air Duct Kit</p> <p>Required 2U accessory kit when installing an Intel® Xeon Phi™ coprocessor card with passive heat sink (heat sink only, no fan)</p> <p>Kit Includes:</p> <ul style="list-style-type: none"> (1) High air flow air duct (1) Metal shipping bracket (2) Non-intel GPGPU secure mounting adapters <p>Note: Intel Xeon Phi cards with active heat sinks are NOT supported in systems configured with the high air flow air duct.</p> <p>Note: Systems configured with any type of Intel® Xeon Phi™ card and/or non-Intel GPGPU card must have the shipping bracket installed before the system is exposed to any level of shock or vibration or is shipped to the end user location. Failure to install the shipping bracket has the potential to cause serious damage to various components within the system.</p>	<ul style="list-style-type: none"> 2U Accessory Kit



- Each Intel® Xeon Phi™ coprocessor card and non-Intel GPGPU card must be installed into the top x16 slot of a 2-Slot PCIe* Riser card. With a 2-slot riser card installed, the embedded fan speed control will operate system fans at a higher speed. 3-slot riser cards (as shipped in the standard platform configuration) cannot be used due to air flow and thermal limitations.

Intel Product Code	Order Information	Product Description	Product Type						
<div>iPC – A2UL16RISER2</div> <div></div>	<div>MM# – 934886</div> <div>UPC – 00735858288668</div> <div>EAN – 5032037067942</div> <div>MOQ – 1</div>	<div>2U 2-slot riser card</div> <div>Required 2U accessory kit when installing an Intel® Xeon Phi™ coprocessor or other Non-Intel GPGPU card</div> <table><tr><th>Slot #</th><th>Description</th></tr><tr><td>Slot-1 (Top)</td><td>PCIe* x16 elec, x16 mechanical</td></tr><tr><td>Slot-2 (Bottom)</td><td>PCIe* x8 elec, x8 mechanical</td></tr></table> <div>Kit includes:</div> <div>(1) Riser card PCBA</div> <div>(1) 12V-AUX Power Cable</div>	Slot #	Description	Slot-1 (Top)	PCIe* x16 elec, x16 mechanical	Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical	<div><ul style="list-style-type: none">• 2U Building Block Accessory Kit• 2U Spare FRU</div>
Slot #	Description								
Slot-1 (Top)	PCIe* x16 elec, x16 mechanical								
Slot-2 (Bottom)	PCIe* x8 elec, x8 mechanical								

6. 1U / 2U Miscellaneous Accessory Options



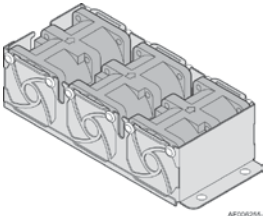
Intel Product Code	Order Information	Product Description	Product Type
iPC – A1U2ULCP 	MM# – 921028 UPC – 00735858245302 EAN – 5032037039826 MOQ – 1	<p>Intel® Local Control Panel</p> <p>A 1U / 2U front panel module which supports the following features:</p> <ul style="list-style-type: none"> • 2 line LCD screen • Customized messaging • Able to display critical system errors <p>When installed this module replaces the front I/O port module on R1304, R1208, R2308, R2208, and R2216 based systems. The LCP module re-uses the existing front USB port assembly from these systems. It does NOT support a front video connector.</p> <p>This Kit is NOT compatible with R2224 and R2312 based systems.</p> <p>See the <i>Intel® Local Control Panel Technical Product Specification</i> for more information</p>	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit
iPC – AXXSATADVDRM 	MM# – 937569 UPC – 00735858197663 EAN – 5032037015127 MOQ – 1	<p>Slimline SATA DVDROM Drive</p> <p>Includes 880mm SATA cable</p> <p>A peripheral power cable is included with the systems that have support for optical drives</p> <p>Optical drives are not supported in R2312WT & R2224WT based systems</p>	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit
iPC – AXXSATADVDRWROM 	MM# – 937575 UPC – 00735858197670 EAN – 5032037015134 MOQ – 1	<p>Slimline SATA DVD+/-RW ROM Drive</p> <p>Includes 880mm SATA cable</p> <p>A peripheral power cable is included with the systems that have support for optical drives</p> <p>Optical drives are not supported in R2312WT & R2224WT based systems</p>	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
<p>iPC - AXXSSDODDKIT</p> 	<p>MM# – 935065 UPC – 00735858288750 EAN – 5032037068031 MOQ – 1</p>	<p>1U fixed mount SSD mounting Kit</p> <p>Tray is installed in the optical drive bay of 1U systems.</p> <p>Kit includes:</p> <ul style="list-style-type: none"> (1) – Metal SSD mounting tray accomodates one 2.5" SATA SSD (1) – 800mm SATA data cable (1) – SSD peripheral power cable <p>Note: Maximum SSD thickness supported = 7mm Note: Systems configured with this kit cannot support an additional optical drive</p>	<ul style="list-style-type: none"> • 1U Accessory Kit
<p>iPC - AXXRJ45DB93</p> 	<p>MM# – 920430 UPC – 00735858242820 EAN – 5032037037525 MOQ – 1</p>	<p>Serial Port Cable Kit</p> <p>This kit provides serial port cables for use with systems that include a back panel cut out to support a DB9 Serial 'B' port as routed from the server board and for systems that include an external RJ45 Serial 'A' port that need to convert the connector to a DB9 style connector.</p> <p>Kit includes:</p> <ul style="list-style-type: none"> (1) - 1040mm Internal Serial 'B' port cable – Onboard DH10 header- to- External Mount DB9 – for 2U systems (1) - 520mm Internal Serial 'B' port cable – Onboard DH10 header- to- External mount DB9 – for 2U systems (1) – 100mm DCD RJ45 to DB9 Dongle (1) – 100mm DSR RJ45 to DB9 Dongle 	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit

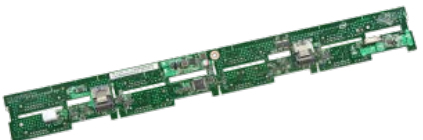


Intel Product Code	Order Information	Product Description	Product Type
iPC - AXXRMM4LITE 	MM# – 911660 UPC – 00735858219297 EAN – 5032037014946 MOQ – 1	Intel® Remote Management Module 4 Lite Activation key Installation of this activation key on to the server board enables support for the following advanced server management features: <ul style="list-style-type: none"> • Integrated KVM • Media Redirection See the <i>Intel Remote Management Module 4 and Integrated Web Console Users Guide</i> for more information.	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit
iPC - AXXTPE5 	MM# – 919737 UPC – 00735858240352 EAN – 5032037035088 MOQ – 1	Intel® Trusted Platform Module (TPM) A TPM is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions. AXXTPE5 implements TPM as per TPM PC Client specifications revision 1.2 by the Trusted Computing Group (TCG)	<ul style="list-style-type: none"> • 1U / 2U Accessory Kit



7. 1U / 2U Spare and Replacement Parts (FRUs)

System integrators and distributors may choose to hold additional stock of individual system components. Intel makes available the following Spare and Replacement Parts (FRUs) compatible with the specified Intel server family.




Intel Product Code	Order Information	Product Description	Product Type
iPC – FXXFPANEL2 	MM# – 937543 UPC – 00735858288712 EAN – 5032037067997 MOQ – 1	Front Panel board spare for use on 1U/2U rack systems (R1000, R2000 except R2224 and R2312) Rack chassis and P4000 Pedestal Chassis. Different from FXXFPANEL by 0.6mm offset of reset and power buttons.	<ul style="list-style-type: none"> 1U / 2U Spare FRU
iPC – FXXCA84X106HS 	MM# – 918318 UPC – 00735858236676 EAN - 5032037031448 MOQ – 2	1U Heat Sink FXXCA84X106HS (Cu/Al 84mmx106mm)	<ul style="list-style-type: none"> 1U / 2U Spare FRU
iPC - FR1UFAN10PW 	MM# – 935064 UPC – 00735858283342 EAN – 5032037064408 MOQ – 1	Three spare fans for 1U R1000WT system. 40x56mm dual rotor with 10p connector. Includes 3 fans in the bracket, with grommets preinstalled.	<ul style="list-style-type: none"> 1U Spare FRU

Intel Product Code	Order Information	Product Description	Product Type
iPC - FR2UFAN60HSW 	MM# – 934990 UPC – 00735858283359 EAN – 5032037064415 MOQ – 1	Two spare fans for 2U R2000WT system. 60x38mm, with hot swap connector. Includes 2 fans with finger guards and housing.	<ul style="list-style-type: none"> 2U Spare FRU
iPC – FR1304S3HSBP 	MM# – 934887 UPC – 00735858288835 EAN – 5032037068116 MOQ – 1	Hot swap backplane board spare for 1U 4x3.5" chassis (R1304 family).	<ul style="list-style-type: none"> 1U Spare FRU
iPC – F1U8X25S3HSBP 	MM# – 934888 UPC – 00735858288798 EAN – 5032037068079 MOQ – 1	Hot swap backplane board spare for 1U 8x2.5" chassis (R1208 family).	<ul style="list-style-type: none"> 1U Spare FRU
iPC – FXX8X25S3HSBP 	MM# – 934890 UPC – 00735858288804 EAN – 5032037068086 MOQ – 1	Single port hot swap backplane board spare for 2U 8x2.5" cage (R2200 and P4000 families). Includes one backplane board.	<ul style="list-style-type: none"> 2U Spare FRU

Intel Product Code	Order Information	Product Description	Product Type
iPC – F2U8X35S3HSBP 	MM# – 934892 UPC – 00735858288811 EAN – 5032037068093 MOQ – 1	Hot swap backplane board spare for 2U 8x3.5" chassis (R2308 family). Includes one backplane board.	<ul style="list-style-type: none"> 2U Spare FRU
iPC – F2U12X35S3HSBP 	MM# – 934893 UPC – 00735858288828 EAN – 5032037068109 MOQ – 1	Hot swap backplane board spare for 2U 12x3.5" chassis (R2312 family). Includes one backplane board.	<ul style="list-style-type: none"> 2U Spare FRU
iPC – A2UHANDLKIT 	MM# – 936038 UPC – 00735858288866 EAN – 5032037068147 MOQ – 1	<p style="text-align: center;">1U / 2U Rack Handle Kit</p> <p>This kit includes 3 different rack handles, including:</p> <p>(1) Set of 2U storage rack handles with control panel and USB support (R2312WT & R2224WT)</p> <p>(1) Set of 2U non –storage rack handles (R2208WT & R2216WT)</p> <p>(1) Set of 1U rack handles (R1304WT & R1208WT)</p>	<ul style="list-style-type: none"> 2U – 24 2.5" Drive Upgrade Kit 1U / 2U Spares Kit

Intel Product Code	Order Information	Product Description	Product Type
iPC – FXX25HSCAR2 	MM# – 937542 UPC – 00735858289405 EAN – 5032037068383 MOQ – 8	Spare 2.5" HDD hot swap carriers.	<ul style="list-style-type: none"> 1U / 2U Spare FRU
iPC – FXX35HSCAR 	MM# – 936192 UPC – 00735858289412 EAN – 5032037068390 MOQ – 8	Spare 3.5" hot swap drive carriers. Includes mounting screws for mounting 2.5" SSDs.	<ul style="list-style-type: none"> 1U / 2U Spare FRU

8. Extended Warranty

Image	Order Information	Description
 <p>Download Intel® Server Component Extended Warranty: Server</p> <p>Intel® Server Component Extended Warranty Key</p> <p>Intel® Server Component Extended Warranty</p> <p>MOQ: 1</p> <p>Expiration: 365 Days</p> <p>Instructions to enable Intel® Server Component Extended Warranty</p> <ol style="list-style-type: none"> 1. Register the system on the Intel® Server System (iSS) portal. Go to www.intel.com/server and click on the "Get Intel® Server System" link. 2. Log in with the Intel® Server System (iSS) portal. Go to the "My Intel® Server System" link and click on the "Add New System" link. 3. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 4. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 	<p>iPC – SVCEWDPSPY</p> <p>MM# – 911295</p> <p>MOQ – 1</p>	Two year extended warranty for Intel® Server Systems or Intel® Server Knock Down Kits + Intel® Server Boards that support two processors. Intel® RAID controller extended warranty is purchased separately.
 <p>Download Intel® Server Component Extended Warranty: Server</p> <p>Intel® Server Component Extended Warranty Key</p> <p>Intel® Server Component Extended Warranty</p> <p>MOQ: 1</p> <p>Expiration: 365 Days</p> <p>Instructions to enable Intel® Server Component Extended Warranty</p> <ol style="list-style-type: none"> 1. Register the system on the Intel® Server System (iSS) portal. Go to www.intel.com/server and click on the "Get Intel® Server System" link. 2. Log in with the Intel® Server System (iSS) portal. Go to the "My Intel® Server System" link and click on the "Add New System" link. 3. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 4. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 	<p>iPC – SVCEWDPBD</p> <p>MM# – 911294</p> <p>MOQ – 1</p>	Two year extended warranty for Intel® Server Boards that support two processors.
 <p>Download Intel® Server Component Extended Warranty: Server</p> <p>Intel® Server Component Extended Warranty Key</p> <p>Intel® Server Component Extended Warranty</p> <p>MOQ: 1</p> <p>Expiration: 365 Days</p> <p>Instructions to enable Intel® Server Component Extended Warranty</p> <ol style="list-style-type: none"> 1. Register the system on the Intel® Server System (iSS) portal. Go to www.intel.com/server and click on the "Get Intel® Server System" link. 2. Log in with the Intel® Server System (iSS) portal. Go to the "My Intel® Server System" link and click on the "Add New System" link. 3. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 4. Add the system to the Intel® Server System (iSS) portal. Go to the "Add New System" link and click on the "Add New System" link. 	<p>iPC – SVCEWRAID</p> <p>MM# – 911298</p> <p>MOQ – 1</p>	Two year extended warranty for Intel® RAID controllers. Batteries are not included in the Extended Warranty. RAID expanders are included as part of the system SKU

Glossary of Terms

A list of Acronyms and Terms used throughout this document

Acronym or Term	Definition	Acronym or Term	Definition
BIK	Baseboard In Knock-Down-Kit – Integrated System	QSFP	Quad Small Form factor Pluggable
CRPS	Common Redundant Power Supply	RAID	Redundant Array of Independent Drives
EAN	International Article Number (Barcode)	Required Option	Hardware that must be added to the shipping configuration for the system to operate
EMI	Electromagnetic Interference	RMFBU	RAID Maintenance Free Backup Unit
ESRT2	Intel® Embedded Server RAID Technology 2	RMM4 Lite	Intel® Remote Management Module 4 Lite Activation key
FDR Infiniband	Fourteen Data Rate Infiniband	ROC	RAID on Chip
FRU	Field Replaceable Unit	RSTe	Intel® Rapid Storage Technology
GPGPU	General Purpose computing on Graphics Processing Unit	SAS	Serial Attached SCSI
iPC	Intel Product Code	SATA	Serial ATA
iPN	Intel Product Number	SFP	Small Form factor Pluggable
LCP	Intel® Local Control Panel		
JBOD	Just a bunch of drives		
KDK	Knock-Down-Kit – (Chassis only product)	SKU	Stock Keeping Unit
KVM	Keyboard / Video / Mouse	SSD	Solid State Drive
MM#	Master Material order number	UPC	Universal Product Code (Barcode)
MOQ	Minimum Order Quantity		
NVMe	NVM Express – based on Non-Volatile Memory Host Controller Interface Specification (NVMeHCI)		
Optional Accessory	Hardware that can be added to the system to enhance the default feature set of the shipping configuration		
PCBA	Printed Circuit Board Assembly		

